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NEW PRODUCT CATALOG

2003 VOL. 1

Roland Presents the Shape of Music.

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Unreal Sounds. Amazing Control. Introducing the V-Synth.

The Roland V-Synth opens up a world of new sounds full of life and motion. Imagine a synth that combines multiple oscillator technologies with realtime control of a waveform's pitch, time and formant. Now add user sampling to create entirely new waveforms, powerful COSM® filtering, a killer arpeggiator and a host of realtime controllers including the revolutionary TimeTrip Pad. That's the Roland V-Synth: a distinctive new instrument set to inspire those passionate about sound.



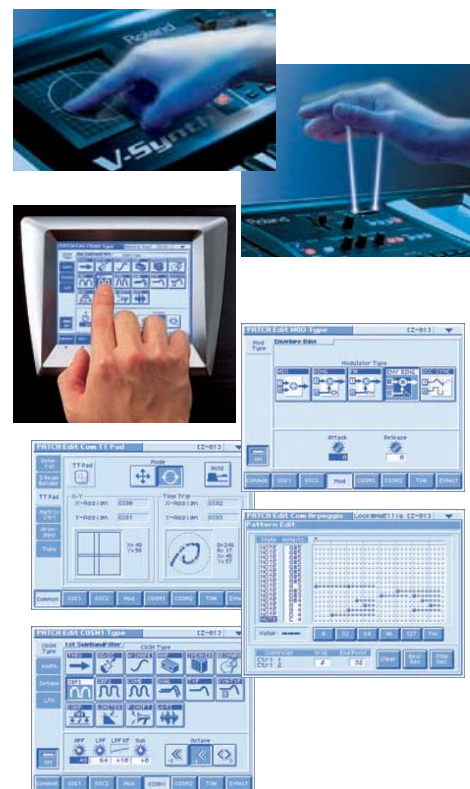
*Actual product appearance may be subject to change.

- Flagship 61-note synthesizer with multiple oscillator technologies, user sampling and new COSM filtering for incredibly dynamic new sounds
- New variable oscillators based on analog modeling, user samples and over 300 PCM waveforms with up to 24-voice polyphony*
- Independently manipulate the pitch, time and formant of sampled waveforms using VariPhrase™ technology—a world's first in a synthesizer!
- Revolutionary TimeTrip Pad allows realtime manipulation of waveforms
- Intuitive touchscreen interface with over 20 knobs and sliders, plus Twin D Beams
- Powerful COSM processing including filter modeling, Resonator and Side Band Filter—plus global reverb, chorus and multi-effects
- New programmable arpeggiator provides additional rhythmic and timbral controls
- USB port for .WAV/.AIFF file import, .WAV export and simplified MIDI connections
- 2 stereo Line outputs, stereo Mic/Line input and S/PDIF digital I/O

*Polyphony depends on processing power.

Programming Heaven

The V-Synth is an instrument for those who like to program—and for those not satisfied with today's variety of synthesizers. V-Synth's variable oscillator with VariPhrase technology brings life to otherwise static waveforms. And it's not just the sound engine, but the way players can interact with it. From the luxurious feel of the 61-note velocity-sensitive keyboard with aftertouch to the interactive control only possible with physical knobs and sliders to the dynamic TimeTrip Pad, Twin D Beams and touchscreen, V-Synth lets you explore entirely new realms of sound never before possible.



Variable Oscillators: The Heart of the V-Synth

The V-Synth's dual oscillators are unlike any previous oscillator design, with a choice of three different types:

The PCM oscillator is powered by VariPhrase for complete sonic control. Choose from hundreds of preset waveforms or sample your own. Then use the "Time Trip" function to manipulate a waveform's time aspect in any way you wish. Slow it down to uncover rich moving harmonic content; speed it up to create high-speed tonal motion; freeze it at your favorite spot; or rewind it backward at any speed without changing pitch and formant, which can also be independently controlled. You've never heard sounds like these!



Analog Modeling is the second oscillator type. Here you'll find nine traditional fat-sounding analog waveforms—strengthened by Roland's latest modeling technology to give them even more warmth and punch. The third oscillator type is External Audio Processing, which lets you process any signal arriving at the V-Synth's analog inputs. All oscillator types can be layered and mixed in several ways, or modulated using FM, ring mod and oscillator hard sync.



Intuitive Programming and Control

The V-Synth's sound engine can be configured in several different ways by choosing from preset Structure types—just like a semi-modular synth! Front-panel Structure buttons make it easy to dive in, while a host of knobs, sliders and buttons give you direct access to vital sound parameters. Even the most detailed editing can be performed quickly using the large touchscreen, which even responds to dragging motions—great for setting envelope curves!

The real magic begins when interacting with the V-Synth's knobs and controllers. With the TimeTrip Pad, you can scan a waveform forward and backward using your fingertip. Imagine adding expressive articulation to a lead vocal sample! Or use the Twin D Beams to modify a range of controllers using infrared light beams. The V-Synth's arpeggiator can even modulate sound parameters. Nothing else provides this type of interaction and creative control.

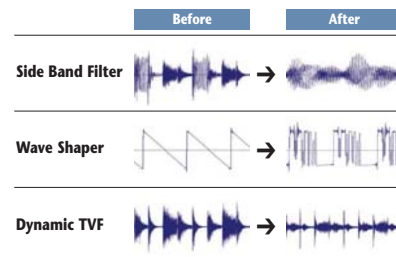


COSM Processing and Effects

In lieu of a basic multi-mode filter, the V-Synth offers two dedicated COSM modeling processors for shaping sounds. So in addition to having access to analog-style filters, you can also plug into new types of processors like polyphonic guitar amp modeling, a Wave Shaper, Resonator (polyphonic waveform processing through a modeled resonance body) and a unique Side Band Filter capable of pulling out the sharper, metallic content of sounds. Of course, there are also global effects including a dedicated reverb processor with ten reverb types, a chorus processor with eight types, and a killer multi-effects processor with 41 distinct algorithms. With tools like these, sounds can be molded however you like.

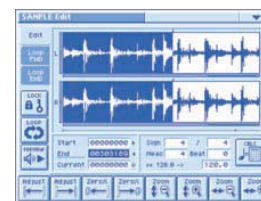


■ COSM Processing Examples



USB Connectivity

With its flexible I/O and USB port, the V-Synth provides endless possibilities for serious sound designers. Use the analog or digital inputs to sample your own waveforms to be used in the variable oscillator. You can even exchange .WAV and AIFF files via the built-in USB port, which also works for MIDI. Resampling is also possible, allowing users to capture any performance with the TimeTrip Pad, D Beam or arpeggiator—or even effected sounds—as an entirely new waveform. All Preset Patches are fully re-writeable, giving users plenty of space for their own creations, which can also be saved via USB to a computer or to an optional PC card. And by purchasing readily available PC card adapters, other media such as CompactFlash, SmartMedia and MicroDrives can be used.



V-LINK: Why Limit Yourself to Audio?

V-LINK is another new approach to creative expression, allowing playback and even performance of video clips with music created on the V-Synth; all you need is the Edirol DV-7PR Digital Video Workstation (sold separately). Use V-LINK to trigger different video clips with V-Synth's keyboard while using the bender to change playback speed. Using the TimeTrip Pad, you can scan a clip forwards or backwards with your finger, or change colors using the Twin D Beams. Explore new dimensions in sound and video with V-Synth!



V-Synth Specifications

■ **Keyboard** 61 keys (with velocity and channel aftertouch) ■ **Sound Generator Configuration** Oscillator (envelope x 4 + LFO x 1) x 2, Modulator x 1, COSM (envelope x 2 + LFO x 1) x 2, TVA (envelope x 1 + LFO x 1) x 1 ■ **Sound Generation Techniques** Analog Modeling, PCM / Variphase (Preset waveforms + Sampling waveforms), External Input ■ **Modulator** 4 types + MIX ■ **COSM** 15 types + THRU ■ **Zones (Splits)** 16 ■ **Parts** 16 ■ **Maximum Polyphony** 24 voices (Varies depending on the load placed on the sound generator) ■ **Internal Memory** Project: 1, Patches: 512, Waves: 999, Wave memory (RAM): 50 MB, (When the unit ships from the factory, 30 MB of this is taken up by the preset waves), Sample storage memory (FLASH): 10 MB ■ **External Storage Device** PC CARD slot (Microdrive, SmartMedia or CompactFlash can be used with PC card adapter) ■ **Effects** MFX (Multi-effects): 41 sets, Chorus: 8 sets, Reverb: 10 sets ■ **System EQ** 4 bands ■ **Sampling Frequency** Internal: 44.1kHz, Digital Audio IN/OUT: 96, 48, 44.1 kHz ■ **Signal Processing** Internal processing: sound generating section: 32 bits (floating point), effects section: 24 bits (fixed point), DA Conversion: 24 bits, AD Conversion: 24 bits ■ **Nominal Output Level** MAIN OUT: +4 dBu, DIRECT OUT: +4 dBu ■ **Nominal Input Level** INPUT (LINE):

-20 dBu, INPUT (MIC): -46 dBu ■ **Arpeggiator** Patterns: User programmable (supports use of control change messages), Motifs: 8 types, Tempo: 20 to 250 BPM ■ **Display** Graphic 320 x 240 dot backlit LCD with touchscreen ■ **Controllers** Pitch Bend / Modulation Lever, Time Trip Pad, Twin D Beam Controller, Assignable Control Knobs (C1, C2) ■ **Connectors** Headphones Jack, Main Output Jacks (L/MONO, R) (1/4 inch phone type), Direct Output Jacks (L, R) (1/4 inch phone type), Input Jacks (L, R) (1/4 inch phone type) (equipped with line/mic gain switch), Hold Pedal Jack, Control Pedal Jacks (1, 2) (assignable), MIDI Connectors (IN, OUT, THRU), USB Connector, Digital Audio Interface (24-bit, S/P DIF): COAXIAL (IN, OUT), OPTICAL (IN, OUT), AC Inlet ■ **Power Supply** AC 117 V, AC 230 V, AC 240 V ■ **Power Consumption** 16 W ■ **Dimensions** 1,056 (W) x 398 (D) x 111 (H) mm, 41-5/8 (W) x 15-11/16 (D) x 4-3/8 (H) inches ■ **Weight** 13.1 kg / 28 lbs 15 oz ■ **Accessories** Quick Start, Owner's Manual, Sound List, CD-ROM (Driver), PC CARD Protector, Power Cable ■ **Options** Keyboard Stand: KS-12, Pedal Switch: DP-2/6, Foot Switch: BOSS FS-SU, Expression Pedal: EV-5

* 0 dBu = 0.775 Vrms.
* The specifications are subject to change without notice.

Fantom-S/-S88

Roland®

The Perfect Marriage of Sampling and Synthesis.

COSM
V-LINK
GENERAL MIDI2

Roland's Fantom-S workstation keyboards are a complete solution for professional music production. The 61-note Fantom-S and 88-note Fantom-S88 both feature seamless integration of audio and MIDI—plus advanced sampling with realtime timestretch, sample chop and new "Skip Back Sampling." A Dynamic Pad Bank makes it easy to arrange and trigger audio, while all-new factory sounds, an onboard mastering processor and USB file exchange give the Fantom-S the power to take your music from idea to completion.



■ Fantom-S



■ Fantom-S88

*Product pictured are prototype models. Actual product appearance may be subject to change.

- Advanced music production studios with 61-note Keyboard (Fantom-S) or 88-note Progressive Hammer-Action Keyboard (Fantom-S88)
- Seamless integration of audio and MIDI using ROM waves and sampling with realtime timestretch capability
- New "Skip Back Sampling" for continuous sampling—never lose an idea again!
- Dynamic Pad Bank with 16 velocity-sensitive pads for easy sample triggering
- USB port for .WAV/.AIFF file exchange with a PC or Mac
- All-new Patches and Rhythm Sets built from brand-new 64MB wave ROM
- 32MB sample RAM (expandable up to 160MB) with .WAV/.AIFF compatibility
- 16MB flash RAM retains your favorite sounds; optional SmartMedia storage
- 3 MFX processors, plus dedicated reverb, chorus and new mastering processor
- Expandable via four optional SRX-Series Wave Expansion Boards
- 4 Line outputs (2 stereo or 4 mono), stereo Line input and 24-bit S/PDIF digital output

Bold New Sounds

Explore entirely new sonic landscapes with a brand-new 64MB-equivalent wave ROM created just for the Fantom-S/-S88. Painstakingly sampled in world-class studios around the world, these new stereo-sampled waves are the finest building blocks ever offered in a Roland keyboard. But don't worry; you can start making music right away. Roland has already created an entirely new set of inspiring Patches and Rhythm Sets sure to fit into the music styles of today and tomorrow.

An Audio and MIDI Powerhouse

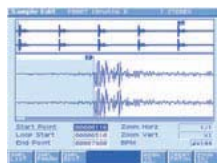
The idea behind the original Fantom was to keep the music flowing. So for the Fantom-S/-S88, a strong emphasis was placed on the way audio and MIDI are integrated. The result is a fluid environment in which both worlds can come together as one. Audio can be sampled using the stereo analog inputs, or imported via USB, and then integrated directly as a waveform in the expressive stereo 4-Tone synth engine. Audio can also be sequenced alongside MIDI data. The Fantom-S/-S88 will even automatically stretch your sample in real time to match any tempo.

Beyond Sampling

Instead of just adding sampling, Roland carefully thought out ways to make it even more useful in production. To start, the Fantom-S/-S88 both come with 32MB of sampling memory, expandable to 160MB—more sampling memory than any other workstation and enough space to resample an entire song! The onboard USB port makes it easy to load .WAV/AIFF files, or export your finished song to a computer for CD burning or Internet distribution.

To make triggering samples easier, Roland added a Dynamic Pad Bank. Samples can be easily mapped to the touch-sensitive pads; the pads can even be used to play ROM sounds or RPS patterns. Another Roland innovation is Skip Back Sampling. This function continuously samples your performances so you'll never lose a great idea. It also makes for an easy way to resample any realtime knob and controller tweaks.

*Skip Back Sampling function patent pending.



Streamlined Mixing

A new Mixer View screen gives the Fantom-S/-S88 the feel of digital mixer—with intuitive graphic editing of a multitimbral Performance in one simple screen. Mix down your song using four knobs and the LCD to change track levels, panning and effects settings. Now audio and MIDI can be mixed together with the feel of a digital recording studio. Roland even makes it easy to set up your Performance using the new Layer View screen with quick graphic editing for layering and key zones. Features like these turn the Fantom-S/-S88 from a workstation to studio.



Complete Studio Effects and Mastering

The Fantom-S/-S88 is loaded with a complete set of pro-quality effects to take your song all the way to final mixdown. To start, you get 24-bit reverb on par with rackmount processors and professional plug-ins, plus a dedicated chorus processor that serves up warm, rich chorus and delay. Three multi-effects processors handle everything from tempo-synced delay and Lo-Fi processing to COSM® Guitar Amp Modeling, Slicer, Isolator and more. Finally, a dedicated mastering processor lets you add the finishing touch with multi-band compression.

USB for Direct Sample Exchange

With onboard USB, importing samples from a PC or Mac is easier than ever. Just browse your computer's hard drive for .WAV and AIFF files, and import the sounds you want using simple drag-and-drop commands (the Fantom-S/-S88 will appear on your computer as a hard drive). Now the audio can be used as a synth waveform or even assigned to the Dynamic Pad Bank for sequencing. Likewise, you can also export a fully mastered song to your computer for burning CDs or MP3 creation.

V-LINK Onboard Video Control

With Roland's V-LINK feature, musicians can integrate video clips with their music for a more captivating performance. Using the optional Edirol DV-7PR Digital Video Workstation (sold separately), you can trigger video clips from the Fantom-S/-S88's sequencer or Dynamic Pad Bank. Capture your background music using Skip Back Sampling and paste it with the clip onto a single pad. Any audio/visual combination you perform can be recalled so you won't lose ideas. Never before has so much power and flexibility been offered in a workstation keyboard.

Fantom-S/-S88 Specifications

[Keyboard] [S] 61 keys (with velocity and aftertouch), [S88] 88 keys (Progressive Hammer Action with aftertouch) **[Synthesizer Section]** **■Maximum Polyphony** 64 voices (shared with Sampling Section) **■Parts** 16 (shared with Sampling Section) **■Wave Memory** 64MB (16-bit linear equivalent) **■Preset Memory:** Patches 640 + 256*, * General MIDI 2 Patches, Rhythm Sets 32 + 9*, * General MIDI 2 Rhythm Set Performances 64 **■User Memory:** Patches 256, Rhythm Sets 32, Performances 64, * In addition to the above, stores in SmartMedia is available. **[Sampling Section]** 16-bit linear, File format WAV / AIFF, Maximum Polyphony 64 voices (shared with Synthesizer Section), Sampling Rate 44.1kHz (fixed), Sampling Time Internal 32MB: mono. 360sec (stereo 180 sec), Maximum 160MB: mono. 30min (stereo 15min) **■Sequencer Section** Tracks 16, Resolution 480 per quarter note, Note Capacity

approx. 400,000 notes **■Effects** Input-effects 1, Multi-effects 3, Reverb 1, Chorus 1, Mastering 1 **■Expansion** Waveform/Patch expansion SRX Wave Expansion Board x 4 slots, Sampling Memory expansion DIMM x 1 (128MB (3.3V) compatible), Storage Smart Media x 1 (8, 16, 32, 64, 128MB (3.3V) compatible) **■Pads** 16 (with velocity and aftertouch) **■Display** 320 x 240 dots Graphic LCD (QVGA) **■Controllers** Pitch Bend / Modulation Lever, D Beam Controller, Control Knobs: 4 **■Connectors** OUTPUT: MIX: R, L (MONO), DIRECT: R, L (MONO), INPUT: R, L (MONO), Headphones, Hold Pedal Jack, Control Pedal Jack, MIDI: IN, OUT, THRU, USB: 1, DIGITAL AUDIO OUTPUT: S/P DIF: Co-axial, Optical, AC inlet **■Dimension** [S] approx. 1,050 x 358 x 109 (mm), [S88] approx. 1,408 x 455 x 151 (mm) **■Weight** [S] approx. 12.5kg, [S88] approx. 29.5 kg

* The specifications are subject to change without notice.

Roland's Premier Sound Library

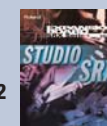
The SRX-Series is Roland's next-generation sound library for "SRXpandable" instruments like the Fantom-S/-S88. With a strong focus on quality, each 64MB-equivalent expansion is loaded with sounds for all types of applications and genres.



SRX-01
Dynamic
Drum Kits



SRX-02
Concert
Piano



SRX-03
Studio
SRX



SRX-04
Symphonique
Strings



SRX-05
Supreme
Dance



SRX-06
Complete
Orchestra



SRX-07
Ultimate
Keys



SRX-08
Platinum
Trax



SRX-09
World
Collection

Complete Realtime Audio Control for Mac and PC!

VariOS is an open-ended hardware/software system that allows musicians to build audio-based tracks with the same flexibility as MIDI. All processing is handled by the VariOS module, which is controlled using bundled software. The first software bundle is V-Producer for VariOS. This software lets musicians manipulate a sample's pitch, time and formant, add effects and even build complete arrangements while keeping the music flowing and without CPU drain. And since the VariOS module can be updated via PC cards, the system can take on entirely new functions in the future.



*Actual product appearance may be subject to change.

- Open-ended realtime audio construction system consisting of VariOS module and new V-Producer for VariOS software
- Play back up to 14 phrases simultaneously with 6-part multitimbral operation
- Award-winning VariPhrase™ technology for intuitive realtime manipulation of pitch, time and formant—control audio phrases like MIDI!
- Batch load/auto-encode .WAV/AIFF audio files from computer via USB and browser
- Internal memory holds up to 300 seconds of mono samples (150 seconds in stereo)
- Easy drag-and-drop sample arrangement—build a complete song in minutes!
- PhraseScope window provides free-form editing of a phrase's melody content
- GrooveScope window allows non-destructive reconstruction of rhythm loops
- Graphic editing of VariOS module's 40 multi-effects, 8 chorus types and 9 reverbs
- V-Producer for VariOS supports MIDI clock/MTC sync and audio/SMF export
- Flash memory and PC Card sample storage for using VariOS module without computer
- Open-ended design allows for future software updates

The Power of VariPhrase in Your PC

Imagine having a software program that allows you to build complete audio-based productions in real time without draining your computer's processor. That's the idea behind VariOS. This open-architecture system combines intuitive V-Producer for VariOS software with a 1U hardware module to create the most powerful audio production system ever conceived. Create complete 6-part audio arrangements while freely manipulating pitch, time and formant. VariOS also comes with separate reverb, chorus and multi-effects so you can process and mix your samples in a plug-in like environment. A simple USB connection is all it takes to be up and running.

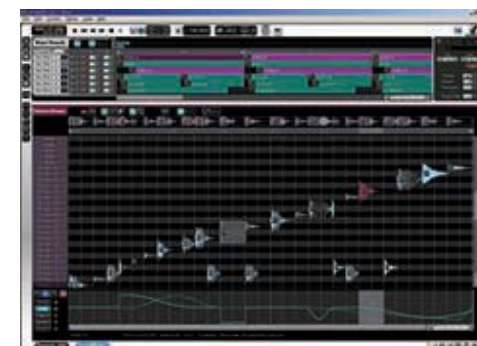
Easy Audio Encoding and Arranging

Building a song with VariOS is a simple process. First, browse your computer hard drive for .WAV and AIFF files. V-Producer can then quickly and automatically batch encode the data and transfer it via USB to the module. Once encoded and transferred, you can arrange tracks in V-Producer using simple drag-and-drop commands. Best of all, any audio file can be made to work with another, since VariPhrase permits independent manipulation of pitch, time and formant without unwanted artifacts.



Twist Your Loops with GrooveScope

V-Producer's GrooveScope window takes reconstructing audio loops to new extremes. First, GrooveScope analyzes the audio and time-slices it into separate events. But here's where things get really interesting: These events can not only be re-arranged to create new loops, but each event's pitch and time can be manipulated graphically without altering the original sound quality. All editing is non-destructive, so you're free to experiment as much as you please—all in real time. And if you prefer tweaking with knobs rather than a mouse, just twist the VariOS module's dedicated controls while scanning the audio loop, and V-Producer will faithfully capture all your moves.



PhraseScope: The Ultimate Vocal Tool

V-Producer's PhraseScope window separates the melody from the rest of the phrase, allowing users to re-construct a new melody or add harmonies graphically, or by playing in notes from a MIDI keyboard. Using PhraseScope, you can take an existing vocal phrase or melodic instrument phrase and change the actual notes, phrasing and vocal gender without unwanted artifacts. Need some quick background vocals? Just play in the harmonies from a keyboard. You can even tweak pitch, time and formant from the VariOS module's knobs. And like GrooveScope, all edits are done in real time and non-destructively.



Integrates with Your Favorite DAW

While VariOS gives you the power to create complete audio-based compositions without any additional hardware or software, it's nice to know you've got options. That's why V-Producer includes the ability to sync to MIDI clock and MTC, enabling it to run smoothly alongside other sequencing programs like Logic, Performer and Cubase. Arrangements can also be exported as Standard MIDI Files (Format 1), and encoded audio files—or an entire arrangement—can be saved as stereo .WAV/AIFF files for further manipulation in other DAW programs.

*All trademarks are property of their respective owners.



Other Convenient Controls



Sample Edit Window

Here you can make adjustments at the sample level including LFO settings, portamento, playback options and more.



Effects Window

Edit the VariOS module's reverb, chorus and multi-effects processors.

00:00:17:15 SMPTE Display

Displays SMPTE time code being generated or received by V-Producer.



VariOS Keyboard

A virtual keyboard for use within V-Producer.



Mixer Window

Adjust the level, panning and effects sends for each VariOS part.

Convenient Stand-Alone Operation

Want to take your VariOS rig on the road? Simply load the samples to the VariOS module using USB, edit them with V-Producer and then save them to the onboard flash memory or PC card. Now you can take the VariOS module out on the road for use as a 6-part multitimbral sound module loaded with your VariPhrase-processed sounds, while still being able to freely manipulate pitch, time and formant using the knobs or MIDI commands.



An Open-Ended System

One of the best reasons to own VariOS is that its functionality is not limited to audio manipulation and construction. Since the module itself is simply a dedicated processor, VariOS can become an entirely new product just by updating the firmware. In the future, Roland will release PC card updates for the VariOS module and corresponding control software, enabling users to turn this system into an entirely new product. Another Roland first!



VariOS Specifications

■ **Sound Generator** VariPhrase ■ **Parts** 1 to 6 ■ **Maximum Polyphony** 14 voices
 ■ **Internal Memory Performance:** 1, Samples: 128, Wave memory (RAM): 46 MB, Backup memory (FLASH): 32 MB ■ **External Storage Device** PC CARD slot (Microdrive, SmartMedia or CompactFlash can be used with PC card adapter).
 ■ **Sampling Frequency** 44.1 kHz (internal) ■ **Data Format** 16-bit linear ■ **Signal Processing** AD Conversion: 24 bits, DA Conversion: 24 bits, Internal processing, (sound generating section): 32 bits (floating point), (effects section): 24 bits (fixed point) ■ **Nominal Input Level** INPUT (LINE): -18 dBu, INPUT (MiC): -43 dBu
 ■ **Nominal Output Level** MAIN OUT: +4 dBu, DIRECT OUT: +4 dBu ■ **Effects**

Reverb: 9 sets, Chorus: 1 set (8 types), Multi: 40 sets ■ **Display** 16 characters, 2 lines (backlit LCD) ■ **Connectors** USB Connector, Headphones Jack, Main Output Jacks (L/MONO, R), Direct Output Jacks (L, R), Input Jacks (L, R), MIDI Connectors (IN, OUT), Digital Audio Output: S/P DIF Connectors (COAXIAL, OPTICAL), AC Inlet
 ■ **Power Supply** AC 117 V, AC 230 V, AC 240 V ■ **Power Consumption** 10 W (AC 117 V), 12 W (AC 230 V, AC 240 V) ■ **Dimensions** 430 (W) x 222 (D) x 44 (H) mm, 16-15/16 (W) x 8-3/4 (D) x 1-3/4 (H) inches, (EIA-1U Rack Mount Type) ■ **Weight** 2.2 kg, 4 lbs 14 oz ■ **Accessories** Owner's Manual, CD-ROM (V-Producer, Driver), Power Cord, USB Cable, Rackmount adapter (two pcs.)

* 0 dBu = 0.775 Vrms.

* The specifications are subject to change without notice.

System requirements (Windows)

■ Operating system: Microsoft(R) Windows(R) XP Home/XP Professional/2000 Professional/Me *Windows(R) XP/2000 recommended ■ Computer: Windows(R)-compatible personal computer equipped with a USB port ■ CPU/Clock: Pentium(R), Celeron(TM), Intel-compatible Processor / 500 MHz or higher ■ Memory (RAM): 128 MB or more ■ Display resolution / colors: 800 x 600 pixels or higher / 65,535 colors or more (High Color 16 bit)

System requirements (Macintosh)

■ Operation system: MacOS 9.0.4 or later (Currently, this product is not compatible with Mac OS X.) ■ Computer: Apple Macintosh computer equipped with a USB port ■ CPU/Clock: PowerPC G3/233 MHz or higher ■ Memory (RAM): 192 MB or more (256 MB or more is recommended) ■ Display resolution / colors: 800 x 600 pixels or higher / 32,000 colors or more

* Although Roland has tested numerous configurations, and has determined that on average, a computer system similar to that described above will permit normal operation of V-Producer software, Roland cannot guarantee that a given computer can be used satisfactorily with V-Producer based solely on the fact that it meets the above requirements. This is because there are too many other variables that may influence the processing environment, including differences in motherboard design and the particular combination of other devices involved.

* If you are using this system together with other software, the system requirements may exceed those listed above.

VR-760 Performance Keyboard

Roland®

A New Concept in Performance Keyboards.

The VR-760 Performance Keyboard is a unique instrument built to cover the bases of keyboard sounds—including the same Virtual ToneWheel organs of Roland's VK-Series, high-quality FP- and RD-Series pianos, all-new electric pianos with COSM® Amp Modeling, and even synthesizer sounds with SRX expansion. This 76-note instrument also sports a waterfall keyboard and a host of futuristic performance features including a D Beam, Active Expression and V-LINK for synchronizing video.

COSM V-LINK



*Actual product appearance may be subject to change.

- First-of-its-kind performance instrument combining top-quality organ, piano and synthesizer sounds with a 76-note waterfall keyboard
- Fully polyphonic organ sounds; 128-voice polyphony for piano and synth sounds
- Organ section based on the "Virtual ToneWheel" sounds of the VK-Series with COSM Amp and Rotary Speaker Modeling
- Piano section features amazing new electric pianos with COSM Amp Modeling
- Piano section also features stereo-sampled acoustic pianos from the legendary FP- and RD-Series with COSM Mic Modeling
- Synthesizer section includes 6 Tone categories with 3 variations each, plus intuitive sound editing knobs
- Expandable via two optional SRX-Series Wave Expansion Boards
- Light-sensing D Beam with multi-colored LED for expressive realtime control
- Active Expression for ultra-expressive performance w/ optional EV-7 Expression Pedal
- V-LINK feature for synchronizing video clips in live performance

*Requires DV-7PR Digital Video Workstation (sold separately) with software version 1.5 or higher.

A Keyboard Player's Dream

When you think about it, every keyboard player needs three things: 1) great organ sounds, 2) realistic pianos and 3) a variety of synthesizer sounds. That's the idea behind the VR-760: Now keyboardists can have all the best sounds in one easy-to-use instrument that's a true pleasure to play. Why bring an organ, digital piano and synthesizer to a gig when the VR-760 does all this and more?

It's Like A VK-8...

Based on Roland's acclaimed VK-8 Combo Organ, the VR-760 delivers organ tones beyond those of sample-based synths. These "Virtual ToneWheel" organ sounds have been praised for their authenticity, and now you can have them in one versatile instrument—complete with COSM Amp and Rotary Speaker Modeling. And with a 76-note waterfall keyboard, you can play glissandos and other techniques distinct to the organ.

...With Outstanding Piano Sounds...

The VR-760 is loaded with the finest acoustic piano sounds from Roland's legendary FP- and RD-Series instruments. These include everything from expressive acoustic grands to bright pop pianos—all with COSM Mic Modeling to give them realistic ambience and tone. And if it's Rhodes and Wurlys you crave, you'll be blown away by the VR-760's newly sampled electric pianos with COSM Amp Modeling. Now you can get those classic "suitecase" and "stage" sounds without having to own the real thing.

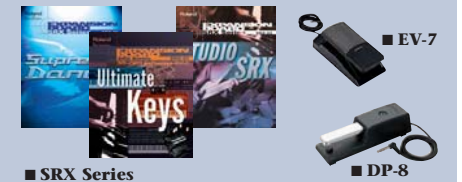
...And an SRXexpandable Synthesizer

Rounding out this sonic stew is a high-quality synthesizer section, which like the piano sounds, can be played with 128-voice polyphony. Sounds are set up into easy Tone categories and can be directly edited via front-panel knobs. And if the onboard sounds aren't enough, you can add two optional SRX-Series Wave Expansion Boards—turning the VR-760 into a workhorse keyboard for any music genre.

Outstanding Performance Control

With the D Beam controller, players can adjust special functions like rotary speed, octave or glide using an infrared light beam with an LED that changes color depending on the proximity of your hand. Roland's unique Active Expression feature offers more performance control than ever before, allowing players to slowly fade in a synth sound over an organ, for example, or to even change the timbre and volume of a sound—all from an optional EV-7 Expression Pedal. And using the new V-LINK function, musicians can even trigger video clips with their music. What more could a keyboard player ask for?

OPTIONS



■ VR-760 Rear Panel

VR-760 Specifications

■ **Keyboard** Waterfall 76 keys (with velocity and aftertouch) ■ **Sound Generator** Organ: Virtual ToneWheel, Piano / Synth / Rhythm: PCM ■ **Part** Organ, Piano, Synth, Rhythm ■ **Maximum Polyphony** Organ: Full Polyphony, Piano, Synth, Rhythm: 128 voices ■ **Wave Memory** 96 M bytes (16-bit linear equivalent) ■ **Organ Section** Harmonic Bar: 16', 5-1/3', 8', 4', 2-2/3', 2', 1-3/5', 1-1/3', 1', ToneWheel: VINTAGE 1, VINTAGE 2, CLEAN, Vibrato and Chorus: V-1, V-2, V-3, C-1, C-2, C-3, Percussion: SECOND, THIRD, SOFT, SLOW, Amplifier: TYPE 1, TYPE 2, TYPE 3, TYPE 4, OVERDRIVE, Rotary: SLOW/FAST, BRAKE ■ **Piano Section** Tones: 9 (3 variations by each A.PIANO, E.PIANO, OTHERS categories), Mic/Amp: TYPE 1, TYPE 2, DISTANCE/EQ, Piano MFx: CHORUS, TREMOLO, WAH, PHASER, DEPTH, RATE ■ **Synth Section** Tones: 18 (3 variations by each STRINGS, CHOR/SCAT, BRASS, SYNTH LEAD, SYNTH PAD, BASS categories), SRX EXPANSION, Tone Modify: ATTACK, RELEASE, CUTOFF, RESO, Synth MFx: ON/OFF, CONTROL, Active Expression: FADE, TIMBRE ■ **Rhythm Section** Rhythm Pattern: 20 ■ **Internal Memory** Registration: 64 ■ **D Beam** ORGAN: ROTARY

SLOW/FAST, PIANO: OCTAVE, SYNTH: GLIDE ■ **Reverb** ROOM, HALL, CHURCH, DEPTH ■ **Master EQ** LOW, MIDDLE (FREQ. LEVEL), HIGH ■ **Expansion Slot** Wave Expansion Board SRX series: 2 slots ■ **External Memory** Compact Flash Memory ■ **Other Functions** V-LINK, ONE TOUCH, SPLIT, H-BAR MANUAL ■ **Display** 16 characters, 2 lines (Backlit LCD), 7 segments, 2 characters LED ■ **Connectors** Output Jacks (L/MONO, R), Output Jacks (XLR type), Phones Jack, Expression Pedal Jack, Damper Pedal Jack, Control Pedal Jack, MIDI Connectors (IN, OUT, THRU), AC Inlet ■ **Power Supply** AC 117 V, AC 230 V, AC 240 V ■ **Power Consumption** 20 W ■ **Dimensions** 1291 (W) x 400 (D) x 121 (H) mm / 50-7/8 (W) x 15-3/4 (D) x 4-13/16 (H) inches ■ **Weight** 17 kg / 37 lbs 8 oz ■ **Accessories** Music Rest, Owner's Manual, Power Cord ■ **Options** Wave Expansion Board: SRX Series, Expression Pedal: EV-7, EV-5, FV-300L (BOSS), Damper Pedal: DP-2, DP-6, DP-8, FS-5U (BOSS), Keyboard Stand: KS-12



* Fugue ©1999-2003 Kyoto Software Research, Inc. All rights reserved.
* The specifications are subject to change without notice.

Audio and Video Together At Last!

Roland is proud to introduce a brand new concept known as "V-LINK." Using V-LINK, musicians can "play" video from their electronic instrument—or even control a live video camera—when used with Edirol video products. All it takes is a simple V-LINK connection to make the magic happen. With V-LINK, musicians have a powerful new interface for realtime audio and video integration. Welcome to the future of music.

A World of Exciting Applications

Whether you're a keyboard player, DJ or music producer, V-LINK can expand your creative possibilities with simple integration of video and music. Currently, V-LINK can be found in Roland gear ranging from keyboards to workstations, with more on the way.



DV-7PR Digital Video Workstation



V-4 4-channel Video Mixer

V-LINK



VS-2400CD
Digital Studio Workstation



MC-909
Sampling Groovebox®



PCR-30
MIDI Keyboard Controller



PCR-50
MIDI Keyboard Controller



V-Synth



Fantom-S/S88



VR-760 Performance Keyboard

Captivate Your Audience with Exciting Audio/Visuals

With V-LINK, musicians can take their performance to the next level by seamlessly integrating audio and video. Imagine hitting a key and instantly triggering a corresponding video clip. Or tweaking a filter knob to create radical visual effects. Or seamlessly blending different video clips at the touch of an audio fader. These are just some of the possibilities available with V-LINK.



The Power of Video in Your Hands

Integrating video with a musical performance used to be a complicated process. In fact, it was more of an afterthought than an extension of the music. Roland's V-LINK has changed all that forever, giving musicians the power to control video while performing on stage. Using Edirol's new V-4 4-channel Video Mixer, for example, musicians can create exciting visual effects that sync to BPM, or even control the picture from a live video camera.



Personal Video Production for Everyone

V-LINK also simplifies the process of editing audio and video together. Start with Edirol's DV-7PR Digital Video Workstation, which provides all of the tools for loading video and audio, creating titles, editing, processing, and output of the finished job in one integrated package that's incredibly easy to use. Now pair it up with Roland's new VS-2400CD, and you can edit audio and video together using a single V-LINK connection.



Roland and Edirol are committed to making V-LINK accessible to more musicians through joint product development. Check our websites for additional announcements coming soon.

VK-88 Combo Organ

Roland®

Taking the Organ to New Heights.

The VK-88 Combo Organ is the ultimate instrument for players who crave the most authentic organ sound and feel. This gorgeous double-manual instrument incorporates Roland's advanced "Virtual ToneWheel" organ sound with COSM® Amp and Rotary Speaker Modeling—plus waterfall keyboards that play just like a classic organ. A D Beam with multi-colored LED gives players enhanced realtime control, while two additional harmonic bars and Active Expression let players blend in other instrument tones.

COSM



*Actual product appearance may be subject to change.

- Flagship combo organ with two 61-note manuals and Virtual ToneWheel technology
- Dual waterfall keyboards with quick-firing keys—great for playing glissandos
- Includes "Orchestral Tones" like piano, strings, brass and outstanding choir sounds
- 9 harmonic bars per manual (upper/lower), two harmonic bars for pedal part, plus two harmonic bars for Orchestral Tones
- 4 types of COSM Amp Modeling including overdriven sounds
- Rotary speaker modeling simulates a well-known rotary speaker
- Active Expression lets players fade in an Orchestral Tone via expression pedal
- D Beam controller with multi-colored LED and templates for easy realtime control
- Onboard reverb, vibrato and chorus effects
- Authentic solid wood cabinet

Authentic In Every Way

Even the most sophisticated organ aficionado will revel in the beautifully designed VK-88. Its gorgeous wooden cabinet captures the look of a classic, while the traditional panel layout—with nine harmonic bars per manual (upper/lower), two harmonic bars for the pedal part, and two additional harmonic bars for "Orchestral Tones"—gives players intuitive control of the organ sound. Dual waterfall keyboards with quick-firing keys make it possible to play using traditional organ techniques like glissandos.

Advanced Virtual ToneWheel Sound

The VK-88's organ sounds are based on the same advanced Virtual ToneWheel sound engine used in the acclaimed VK-8 Combo Organ. Players can choose from four authentic tone wheel types—Vintage 1, Vintage 2, Solid and Clean—and then further adjust the sound using the harmonic bars. The VK-88 even lets players adjust the leakage level and click sound—just like the organs of yesteryear!

COSM Amp and Rotary Speaker Modeling

In addition to its ability to accurately model the sound of a vintage rotary speaker, the VK-88 sports four types of COSM amp models. Now you can get any organ tone imaginable—from the clean sound of a gospel organ to the gritty sound of a rock organ (courtesy of the newly developed COSM Amp Type IV, which features an incredible gain stage for down-right killer distortion).

Built for Performers

Take your performance to the next level with the light-sensing D Beam controller. Using an infrared beam of light with an LED



■ VK-88 shown with music stand (included), the optional PK-25 Pedal Keyboard, BNC-88 Organ Bench and KC-1000 Keyboard Amplifier.

that changes color depending on the proximity of your hand, you can control a variety of preset options like rotary speed (Slow/Fast). And with Active Expression, players can slowly fade in one of the VK-88's Orchestral Tones using an optional EV-7 Expression Pedal. These additional tones offer new possibilities for organ performance, while 64 User registrations make for quick and easy recall.

Super Size Your Combo!

By adding the optional PK-25, players gain a 25-note pedalboard ideal for playing bass. Designed to match the distinctive look of the VK-88, the PK-25 also includes a detachable expression pedal and two footswitches. Pair up the VK-88 with Roland's KC-1000 stereo mixing amplifier, and you'll get 310 watts of powerful sound with unique RSS® ambient effects, split-frequency compression and ultra-realistic tone cabinet reverberation.

OPTIONS



■ RKS-88

■ EV-7



■ VK-88 Rear Panel

VK-88 Specifications

■ **Keyboard** Upper: Waterfall 61 keys (with velocity and aftertouch), Lower: Waterfall 61 keys (with velocity) ■ **Sound Generator** Organ: Virtual ToneWheel Method, Orchestral Tones: PCM Method ■ **Part** Organ 3 part (Upper, Lower, Pedal), Orchestral Tones 2 part (Upper, Lower) ■ **Maximum Polyphony** Organ: Full Polyphony, Orchestral Tones: 128 Voices ■ **Organ Tone Wheel**: Wheel Type (Vintage1, Vintage2, Solid, Clean), Leakage level, Click level, Vibrato and Chorus: V-1, V-2, V-3, C-1, C-2, C-3, Percussion: Second, Third, Soft, Slow, AMP simulator: AMP Type (Type I, Type II, Type III, Type IV), Overdrive, Tone, Reverb: Reverb type (Room, Hall, Church, Spring), Reverb level, D BEAM: CRESCENDO, ROTARY SPEED, RING MODULATOR, TONE WHEEL BRAKE, SPRING SHOCK ■ **Orchestral Tones** Upper: STRINGS, LARGE CHOIR, GOSPEL CHOIR, SYNTH

PAD, BRASS, WOOD WINDS, JAZZ, SCAT, ACCORDION, Lower: PIANO, E.PIANO 1, E.PIANO 2, CLAVI, VIBES, HARPISCHORD, A.BASS, E.BASS, Chorus, Reverb: Reverb type (Room, Hall, Church, Spring), Reverb level ■ **Internal Memory** REGISTRATION: 64 (User Memory) ■ **Power** AC: 117 V, AC: 230 V, AC: 240 V ■ **Dimensions** 1184 (W) x 590 (D) x 1135 (H) mm / 46-5/8 (W) x 23-1/4 (D) x 44-11/16 (H) inches ■ **Accessories** Owner's Manual, Edit Mode Quick Reference, Music Rest, Rear Board w/Screw set, PK Cable, AC Cable ■ **Options** Expression Pedal: EV-7, Pedal Keyboard: PK-25/7, Keyboard Amplifier: KC-1000/500/300/100, Pedal Switch: DP-2/8, Organ Stand: KS-88, External Speaker Rack Kit For VK-88: RKS-88, Organ Bench: BNC-88

* The specifications are subject to change without notice.

VK-8M Organ Module

Roland®

Add Realistic Organ Tones to Your Sound!

The Roland VK-8M Organ Module puts Roland's acclaimed "Virtual ToneWheel" organ sound in a convenient desktop unit with nine harmonic bars and retro-style wood panels. COSM® Amplifier and Rotary Speaker Modeling further complement these authentic sounds, while an audio input and Active Expression feature let players fade in an external tone with a pedal. The VK-8M makes adding distinctive organ sounds to any setup easy.

COSM



*Actual product appearance may be subject to change.

- Desktop organ module with acclaimed VK-8 "Virtual ToneWheel" sound
- 9 harmonic bars for a range of authentic organ tones
- 4 COSM amp types w/ overdrive, plus rotary speaker modeling and reverb
- Line input for blending in an external sound using Active Expression and pedal
- D Beam controller with multi-colored LED and templates for easy realtime control
- 36 User registrations for storing custom sounds
- Attractive wooden side panels
- Optional bracket for stand mounting

The Soul of the Popular VK-8

Since its introduction, Roland's VK-8 Combo Organ has made quite an impact with die-hard organ fans—praised for its natural and authentic sound. Now Roland makes these Virtual ToneWheel organ sounds available to any musician with the desktop VK-8M. With its new COSM Amp Modeling, nine harmonic bars and simple knob-based controls, the VK-8M delivers outstanding organ sounds with easy front-panel editing. Players can also dive into more detailed sound parameters like leakage level and rotary speed.

Wheel Types

Vintage 1	Modeling of a '70s combo organ with all noise eliminated, including leakage
Vintage 2	Faithful modeling of a '62 classic combo organ
Clean	Modeling of a '70s combo organ with motor noise eliminated

Onboard COSM Amp Modeling

The VK-8M's amazing organ sounds are further improved with COSM Amp Modeling. Four different amp types are available for creating everything from clean gospel organs to the gritty overdriven sounds of a rock organ. The newly developed COSM Amp Type IV stands out in particular for its killer gain and crunchy distortion effect. The VK-8M takes organ modeling to a whole new level of realism, with intuitive editing of every parameter.

Amp Types

Type I	Faithful simulation of the most popular rotary speaker
Type II	Simulates the characteristics of a large tube guitar amp
Type III	Variation of a rotary speaker simulation
Type IV	Features an incredible gain stage for sharper distortion sounds



■ VK-8M Rear Panel

VK-8M Specifications

■ Sound Generator Virtual ToneWheel Method ■ Part 3 part (Upper, Lower, Pedal)
 ■ Maximum Polyphony Full Polyphony ■ Organ Tone Wheel: Wheel Type (Vintage1, Vintage2, Clean), Leakage level, Vibrato and Chorus: V-1, V-2, V-3, C-1, C-2, C-3, Percussion: Second, Third, Soft, Slow, AMP simulator: AMP Type (Type I, Type II, Type III, Type IV), Overdrive, Tone, Reverb: Reverb type (Room, Hall, Church, Spring), Reverb level, D BEAM: CRESCENDO, ROTARY SPEED, RING MODULATOR, TONE WHEEL BRAKE, SPRING SHOCK, GLISSANDO ■ Internal Memory REGIS-



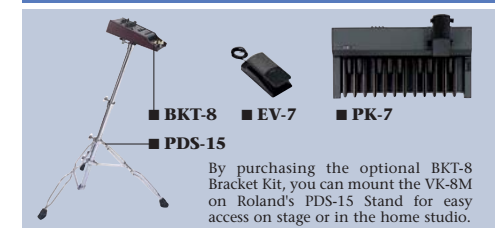
Unique Active Expression Feature

Performers will appreciate the VK-8M's Line input and Active Expression feature. Using an optional EV-7 Expression Pedal, players can gradually fade in a sound from an external source, such as a synthesizer or MIDI module. By slowly fading in a pad sound, for example, players can bring out a section of a song, or create energy by fading in a sharper tone like brass. These features open up an entirely new level of expression.

An Exceptional Performer

With its D Beam Controller, the VK-8M offers performers a world of expression. Using an infrared beam of light with an LED that changes color as your hand changes distance, players can control such functions as rotary speed (Slow/Fast) or tone wheel motor stops. And with 36 memory locations, you can store custom settings with a simple one-touch procedure and recall your sounds using the Bank Select and six Registration buttons.

OPTIONS



■ BKT-8 ■ EV-7 ■ PK-7
 ■ PDS-15

By purchasing the optional BKT-8 Bracket Kit, you can mount the VK-8M on Roland's PDS-15 Stand for easy access on stage or in the home studio.

TRATION: 36 (User Memory) ■ Power Supply AC Adaptor (PSB-1U) ■ Current Draw 700 mA ■ Finish Side Panel: Natural Wood Walnut Finish ■ Dimensions 233 (W) x 275 (D) x 77 (H) mm / 9-3/16 (W) x 10-7/8 (D) x 3-1/16 (H) inches ■ Weight 1.7 kg / 3 lbs 12 oz ■ Accessories Owner's Manual, Edit Mode Quick Reference, AC adaptor, AC cable ■ Options Bracket Kit: BKT-8, Stand: PDS-15, Expression Pedal: EV-7, Keyboard Amplifier: KC-1000/500/300/100

* The specifications are subject to change without notice.

FP-5 Digital Piano

A Stylish New Piano with Amazing Organ Sounds and USB.

The FP-5 Digital Piano is the most advanced FP-Series piano ever. It comes with Roland's finest stereo-sampled piano sounds, an 88-note Progressive Hammer-Action Keyboard, new Virtual ToneWheel organ sounds and a built-in speaker system—without sacrificing the stylish looks and compact design the FP-Series is known for. An improved Session Partner makes practice more fun, while the addition of a USB port simplifies setups with a computer.



*Actual product appearance may be subject to change.

- Compact digital piano with stylish design and onboard speakers
- 88-note Progressive Hammer-Action Keyboard for responsive touch
- Stereo-sampled piano sounds, a variety of instrument tones and 64-voice polyphony
- Enhanced organ tones based on Roland's Virtual ToneWheel technology
- Dedicated knobs for controlling relative volume of layered sounds
- New Session Partner with fresh styles and programmable chord progressions
- Handy "Setup Memories" for recalling custom settings like splits and layers
- 3 pedal inputs (damper, sostenuto, soft) with half-pedal recognition
- USB-MIDI interface and GM2-compliant sound source

Fantastic Sound

Whether using headphones or the built-in speakers, the FP-5 delivers outstanding piano sounds with amazing realism and expressiveness. That's because the FP-5 benefits from Roland's latest stereo-sampled pianos, which have been fine-tuned to capture every nuance of an acoustic grand. These sounds are further complemented by a new speaker system that faithfully reproduces everything from the deep lower register to the sparkling upper range.

Uncompromising Piano Action

Sit down to play an FP-5 and you'll immediately notice the quality of the keyboard, which uses real hammers rather than springs. Play the lower register and you'll get a heavier touch. Play the upper register and the keys feel lighter. That's the beauty of Roland's Progressive Hammer-Action Keyboard: You can play as expressively as you like with a response identical to an acoustic grand.



New Half-Pedal Recognition

The FP-5 includes three pedal inputs, allowing players to connect a damper pedal and optional soft/sostenuto pedals. And with new half-pedal recognition, the FP-5's damper pedal can go between the off and on position for a response even more like an acoustic piano. Nothing comes closer!

*The FP-5 comes with one DP-8 Half Damper Pedal as an accessory.



■ FP-5 Rear Panel



■ FP-5 shown with music stand, DP-8 Half Damper Pedal (both included), and the optional FPS-11A Keyboard Stand.

Meet Your New Session Partner

The Session Partner, first introduced on the FP-3, has become very popular with students and players for its built-in rhythm patterns and auto-accompaniment styles. Now for the FP-5, Roland has beefed up the Session Partner even more—adding new styles and user-programmable chord progressions—while making it even easier to use. Why play along with a metronome when you can play with a live band?

Amazing Organ Tones and More

Using Roland's acclaimed "Virtual ToneWheel" technology, the FP-5 gives players access to ultra-realistic organ sounds that you simply must hear to believe. These are not just presets; you can change the level of each footage to create just the organ sound you want. The FP-5 also comes with an assortment of high-quality instrument sounds and drum kits for an even greater sonic palette.

Well-Connected

The FP-5 has no shortage of inputs and outputs. For starters, a stereo Line input lets you play along with external sound sources like a CD player—great for practice. Stereo Line outputs make it possible to bypass the FP-5's speakers for recording or playing through an amp. You even get a choice of standard MIDI connections, or cutting-edge USB-MIDI. And since the FP-5 is GM2-compliant, it works great with an external sequencer.



FP-5 Specifications

[Keyboard] ■ **Keyboard** 88 keys (Progressive Hammer-Action Keyboard) ■ **Touch Sensitivity** Light/Normal/Heavy/Fixed (adjustable velocity) ■ **Keyboard Mode** Whole, Dual, Split (adjustable split point) [Sound Generator (Conforms to General MIDI 2 System)] ■ **Max. Polyphony** 64 voices ■ **Tones** 7 groups 64 variations (including 6 ToneWheel Organ and 4 Drum Sets), GM2 Tones: 256 + 9 Drum Sets ■ **Effects** Reverb, Multi Effects (10 Types) ■ **Transposition** -6 to +5 (semitone steps) ■ **Temperament** 7 types, selectable tonic ■ **Master Tuning** 415.3 Hz to 466.2 Hz (0.1 Hz Step) [Session Partner] ■ **Rhythms** 80 Rhythms ■ **Chord Progression** Automatic or input with keyboard, User Programmable [Recorder] ■ **Metronome** Beat: 2/2, 0/4, 2/4, 3/4, 4/4, 5/4, 6/4, 7/4, 3/8, 6/8, 9/8, 12/8, Volume: 10 levels, Pattern: 11 patterns ■ **Tracks** 3 tracks ■ **Song** 1 song ■ **Tempo** Quarter note = 20 to 250 ■ **Resolution**

120 ticks per quarter note [Others] ■ **Setup** 7 ■ **Internal Songs** 9 Demo songs, 65 Piano songs ■ **Speakers** 10 cm x 2 ■ **Rated Power Output** 10 W x 2 ■ **Display** 7-segment, 3-digit LED ■ **Connectors** Line Out jacks (L/Mono, R), Line In jacks (L/Mono, R), Phones jack (front panel) x 2 (stereo miniature phone type), USB connector (MIDI), MIDI connectors (In/Out), Pedal jacks (Damper, Sostenuto*, Soft*) ■ **Assignable** DC In Jack ■ **Power Supply** DC 12 V (AC adaptor) ■ **Power Consumption** 35 W ■ **Dimensions** (without the music stand) 1,308 (W) x 360 (D) x 128 (H) mm / 51-1/2 (W) x 14-3/16 (D) x 5-1/16 (H) inches ■ **Weight** 21.5 kg / 47 lbs 7 oz ■ **Accessories** Owner's manual, USB Installation guide, CD-ROM (Roland Digital Piano USB Driver), AC adaptor, AC cord, Music Stand / 2 screws for the music stand, Pedal (DP-8) ■ **Options** Keyboard Stand (FPS-11A), Pedal (DP-2/8), Expression Pedal (EV-5), MIDI Implementation

* The specifications are subject to change without notice.

F-90-BK Digital Piano

Roland®

Back in Black.

The F-90-BK Digital Piano is a new black cabinet version of the popular F-90. This remarkable instrument packs all the best features of more expensive models—like an 88-note Progressive Hammer-Action Keyboard, stereo-sampled piano and instrument sounds, plus an onboard metronome and speakers—in a sleek, modern-looking cabinet designed to occupy minimal space in your home.



*Actual product appearance may be subject to change.

- Affordable 88-note digital piano with premium features and modern style
- Exclusive Progressive Hammer-Action Keyboard permits dynamic playing
- High-quality piano sounds respond naturally in upper and lower registers
- Onboard instrument sounds like electric piano, organ and strings
- Metronome function and dual headphone jacks for practice
- Special dual-speaker system designed to compliment cabinet acoustics
- Available in new black cabinet (F-90-BK) or original simulated maple finish (F-90)

Show Your True Colors

Whether you're into contemporary styles or a conservative look, there's an F-90 Digital Piano for you. The original simulated maple finish fits well with a modern décor, while the new F-90-BK is suited for those who prefer traditional looks. Either way, you'll get the same great piano sounds and features. The choice is yours...



■ F-90 (simulated maple)

Exceptionally Realistic

The F-90's stereo-sampled piano sounds faithfully reproduce the sparkling clear notes of the upper register down to the natural reverberation of the lower register. Put simply, you won't find a better grand piano sound without owning one. And with Roland's Progressive Hammer-Action Keyboard, the 88 weighted keys feel and respond just like an acoustic grand piano, with a lighter touch in the upper range and heavier touch in the lower range. Now you can play music the way it was intended to be played.

A Versatile Instrument for Practice or Pleasure

A well-rounded instrument, the F-90 features a range of instrument sounds like electric piano, harpsichord, organ, strings, and choir—complete with reverb and chorus, plus a handy Layer mode. A built-in metronome offers adjustable tempo, beat and volume, while dual headphone jacks permit silent practice. Fifty onboard demo songs can be used for practice or listening enjoyment; you can even play along with CDs using the stereo Line input. And all of this music sounds great through the F-90's custom stereo speaker system.



■ F-90-BK Top Panel

F-90-BK Specifications

[Keyboard] ■ Keyboard 88 keys (Progressive Hammer-Action Keyboard) ■ Touch Sensitivity Light, Medium, Heavy, Fixed ■ Keyboard Mode Whole, Dual (adjustable volume balance) [Sound Generator] ■ Maximum Polyphony 64 voices ■ Tones 10 (Grand Piano, Bright Piano, Stage Rhodes, Electric Piano, Harpsichord, Organ Flute, Pipe Organ, Rotary Organ, Strings, Choir) ■ Effects Reverb (5 levels), Chorus (fixed for E. Piano only), Sympathetic Resonance (fixed for Piano only) ■ Key Transposition -6 to +5 (semitone steps) ■ Master Tuning 415.3 Hz to 466.2 Hz (0.1 Hz steps) [Metronome] ■ Beat 0, 2, 3, 4, 6 ■ Volume 5 levels ■ Tempo Quarter

note = 20 to 250 ■ Speakers 12 cm x 2 ■ Rated Power Output 5 W x 2 [Others] ■ Demo Songs 50 ■ Connectors Headphones Jack (Stereo miniature phone type) x 2, MIDI Connectors (In, Out), Output Jacks (L/Mono, R), Input Jacks (L/Mono, R), Pedal Jacks (Damper, Soft) ■ Power Supply DC 9 V (AC Adaptor) ■ Power Consumption 2,000 mA ■ Cabinet Finish Black ■ Dimensions (without the music stand) 1,337 (W) x 295 (D) x 772 (H) mm, 52-11/16 (W) x 11-5/8 (D) x 30-7/16 (H) inches ■ Weight 36 kg / 80 lbs ■ Accessories Owner's Manual, AC Adaptor, AC Cord, Music Stand, Pedal, Cover

* The specifications are subject to change without notice.

VS-2400CD Digital Studio Workstation

Roland®

24-track Recording and CD Burning for Everyone.



The VS-2400CD Digital Studio Workstation brings professional 24-track recording and CD burning to a new low price. This compact recording workstation inherits many features from the flagship VS-2480CD—like premium analog components, motorized faders and powerful software control—while adding new features of its own such as RSS 3-D panning and V-LINK for integrating Edirol video products. Onboard effects and an internal CD drive let you mix, master and burn like a pro.



*Actual product appearance may be subject to change.

- Self-contained 24-track/24-bit/96kHz recording workstation with onboard effects, CD-RW drive and 40GB hard disk
- 24-track playback; 16-track simultaneous recording with 384 V-Tracks
- 48-channel, fully automated digital mixer with 13 motorized faders
- VGA Monitor output for fast, software-style editing with mouse
- Intuitive drag-and-drop editing via included mouse and optional ASCII keyboard
- New RSS 3-D panning creates a 3-Dimensional sound field for mixing

- V-LINK function for synchronizing or controlling video equipment*
- Premium analog components including 8 XLR/balanced TRS inputs and Hi-Z input
- Import .WAV/AIFF files direct from CD-ROM; export files in .WAV format
- 2 stereo effects (expandable to 4 stereo, 8 mono) including COSM® Mic, Speaker and Guitar Amp Modeling, plus Mastering Tool Kit
- 8-channel R-BUS port for expandable I/O in a variety of analog/digital formats

*V-LINK requires Edirol DV-7PR Digital Video Workstation (sold separately) with software version 1.5 or later.

When 16 Tracks Aren't Enough...

Let's face it: 16 tracks are great, but 24 tracks are even better. With the VS-2400CD, you can record and play back up to 24 tracks in pristine 24-bit sound. That's enough room for an individually miked drum set, along with guitar, bass and plenty of vocals. And with 384 Virtual Tracks, you'll never have to settle for just one take. And for those who want the ultimate in sound quality, the VS-2400CD supports multitrack recording at 96kHz.

*At sampling rates of 96kHz, maximum 8-track recording is possible.

Flexible 48-Channel Mixing with Motorized Faders

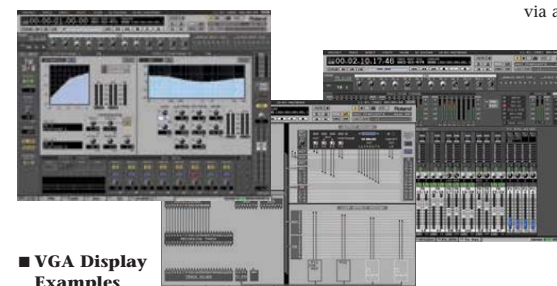
More than just a recorder, the VS-2400CD is a full-blown 48-channel digital mixer. These channels consist of the 16-channel Input mixer, 24-channel Track mixer and eight effect returns. How do you keep them all straight? That's where the 13 motorized faders come in. Just select which channels you want to mix and the faders instantly snap to the proper position. It couldn't be easier!

Works Like the Popular VS-2480

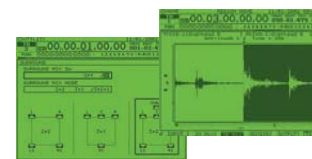
Ask any VS-2480 owner and they'll likely tell you what a pleasure it is to use. That's because the operating system is based on years of knowledge gained from products dating back to the original VS-880. And now this same easy-to-use interface can be found in the VS-2400CD. Just follow the graphic icons to quickly navigate menus, while taking advantage of intuitive drag-and-drop editing using the mouse. You can even connect an optional VGA monitor for true software-style control.

New RSS 3-D Panning and Onboard Effects

A new RSS Panning function provides dedicated 3-D panning without complicated editing. Using this function, you can create a 3-D sound field with up to six mono sources and write it into the Automix. The VS-2400CD also sports dedicated 4-band EQ and dynamics on 32 channels, plus two stereo effects processors with 36 high-quality Roland/BOSS algorithms. These include everything from reverb and delay to Lo-Fi and vocoder effects, plus guitar amp modeling, mic modeling and mastering tools. Two additional stereo effects can be added via an optional VS8F-2 Effects Expansion Board.



■ VGA Display Examples



■ LCD Display Examples



*VGA monitor not included and shown only for photography purpose.

Burns CDs and the Competition

With a low-profile CD burner built-in, the VS-2400CD has everything you need to take your song from idea to completion. First mix down your tracks (along with any live inputs) to an open pair of tracks. Then add the final touch using the Mastering Tool Kit with multi-band compression and burn your 2-track master to CD. The CD-RW drive can also be used to import .WAV files directly into a song—great for loading loops from sampling CDs!

Expandable I/O and V-LINK

If you need additional inputs, simply connect using the 8-channel R-BUS port. For example, the VS-2400CD can be connected with another VS-2400CD, VS-2480 or even to a computer with the RPC-1 R-BUS Interface Card. This allows you to expand input channels and recording tracks, or exchange eight channels of 2-way audio and MIDI data between your V-Studio and a PC. And with V-LINK, musicians can trigger video clips by creating MIDI events on any of the VS-2400CD's recording tracks, or use the V-Fader function to control video parameters such as color balance and brightness.

*All trademarks are property of their respective owners. V-LINK requires Edirol DV-7PR Digital Video Workstation (sold separately) with software version 1.5 or later.



VS-2400CD Specifications

■ **Tracks** Tracks: 24, V-Tracks: 384 (16-V-Tracks per each Track) ■ **Sample Rate** 96.0/88.2/64.0/48.0/44.1/32.0 kHz * Adjustable range with vari-pitch function, 22.0 kHz – 98.0 kHz (at 96 kHz), 22.0 kHz – 50.0 kHz (at 48 kHz) ■ **Recording Mode** Mastering 24-bit (M24), Multitrack Pro (MTP), CD Writing (CDR), Mastering 16-bit (M16), Multitrack 1 (MT1), Multitrack 2 (MT2), Live 1 (LIV), Live 2 (LV2) ■ **Maximum Simultaneous Recording / play back Tracks** Sample Rate 48/44.1/32 kHz: 16-tr. Rec / 16-tr. Play (M24, M16, CDR), 16-tr. Rec / 24-tr. Play (MTP, MT1/2, LIV, LV2), Sample Rate 96/88.2/64 kHz: 8-tr. Rec / 8-tr. Play (M24, M16, CDR), 8-tr. Rec / 12-tr. Play (MTP, MT1/2, LIV, LV2) * Depending on the organization of the song data etc., the number of tracks which can be simultaneously recorded or played back may be limited. ■ **Maximum Useful Capacity** 40 G bytes: 10 G bytes (Capacity) x 4 (Partition) ■ **Frequency Response** 96.0 kHz: 20 Hz – 40 kHz (+0 dB/-2 dB), 88.2 kHz: 20 Hz – 40 kHz (+0 dB/-2 dB), 48.0 kHz: 20 Hz – 22 kHz (+0 dB/-2 dB), 44.1 kHz: 20 Hz – 20 kHz (+0 dB/-2 dB), 32.0 kHz: 20 Hz – 14 kHz (+0 dB/-2 dB) ■ **Projects** 200 projects in each partition ■ **Marker** 1000 per project ■ **Locator** 100 (10 x 10 banks) per project ■ **Scene** 100 (10 x 10 banks) per project ■ **Undo/Redo** 999 Undo / 1 Redo ■ **Nominal Input Level (variable)** Input 1–8: -50 – +14 dBu, (maximum +26 dBu; balanced, maximum +20 dBu; unbalanced), Guitar (Hi-Z): -50 – +14 dBu (maximum +20 dBu) ■ **Input Impedance** Input 1–8: 10 k Ω (balanced), Guitar (Hi-Z): 1 M Ω ■ **Nominal Output Level** Master Out: +4 dBu (balanced), AUX A (L, R): +4 dBu (balanced), AUX

B (L, R): +4 dBu (balanced), Monitor Out: +4 dBu (balanced) ■ **Output Impedance** Master Out: 600 Ω , AUX A (L, R): 600 Ω , AUX B (L, R): 600 Ω , Monitor Out: 600 Ω , Phones: 22 Ω ■ **Recommended Load Impedance** Master Out: 10 k Ω or greater, AUX A (L, R): 10 k Ω or greater, AUX B (L, R): 10 k Ω or greater, Monitor Out: 10 k Ω or greater, Phones: 8 – 600 Ω ■ **Residual Noise Level (input terminated with 1k Ω , INPUT SENS: LINE, IHF-A, typ.)** Master Out: -86 dBu or less, AUX A: -86 dBu or less, AUX B: -86 dBu or less, Monitor Out: -86 dBu or less ■ **EQ** 4-band (2 shelving + 2 peaking) * Useful simultaneously at up to 32ch in both Input Mixer and Track Mixer. (at 48kHz or less.), * Useful simultaneously at up to 16ch in both Input Mixer and Track Mixer. (at 64kHz or above.) ■ **Dynamics Processor** Compressor, Expander * Useful simultaneously at up to 32ch in both Input Mixer and Track Mixer. (at 48kHz or less.), * Useful simultaneously at up to 16ch in both Input Mixer and Track Mixer. (at 64kHz or above.) ■ **Effects** Maximum 4 stereo (One pre-installed + One more optional VS8F-2) ■ **Hard Disk Drive** IDE type 3.5 inches 40 G bytes ■ **CD-RW Drive** Reading Speed: 24x (max.), Recording Speed: Record (CD-R) 4x correspond, Re-Write (CD-RW) 4x correspond ■ **Power Consumption** 60 W ■ **Dimensions** 480 (W) x 481 (D) x 136 (H) mm, 18-15/16 (W) x 18-15/16 (D) x 5-3/8 (H) inches ■ **Weight** 10.5 kg, 23 lbs 3 oz

* 0 dBu = 0.775 Vrms.

* The specifications are subject to change without notice.

M-1000 10-channel Digital Line Mixer

A New Type of Mixer for Today's Digital World.

The M-1000 10-channel Digital Line Mixer is a 1U rackmount mixer designed to mix digital signals of varying sample rates. The M-1000 comes with four stereo digital inputs and a stereo analog input—all with 24-bit/96kHz sound quality—making it perfect for mixing electronic musical instruments and recording gear equipped with digital outputs.



*Actual product appearance may be subject to change.

- 10-channel digital line mixer in space-saving 1U chassis
- 4 stereo digital inputs (coaxial/optical) and stereo analog input (1/4" phone)
- USB port for bi-directional digital audio streaming with a PC

- Superb 24-bit/96kHz sound quality and 56-bit processing throughput
- Professional Word Clock I/O and automatic sample rate conversion
- Coaxial and optical digital outputs, plus analog Master outputs (XLR) and Monitor output (1/4" phone)

Mix Multiple Digital Sources including USB Audio

Today's synthesizers, sound modules and recording gear often feature digital outputs, but musicians have never had a way to mix all these sources at once. That's where the M-1000 comes in. This 1U rackmount mixer can mix up to four stereo digital signals of varying sample rates with professional 24-bit/96kHz sound quality. A stereo analog input is also provided, plus a USB port for mixing in audio from a PC. And since the M-1000 handles all sample rate conversion automatically, you're free to mix just about any digital signal you want.

Flexible Sync Options and Expandable Design

With its Word Clock input and output, the M-1000 can be easily integrated into professional studios. The clock source itself is selectable among Internal, Word Clock, Digital In 1 and USB* for maximum flexibility. And with its pro-quality specs—including pristine 24-bit/96kHz AD/DA converters and 56-bit internal processing, the M-1000 can be used in a range of applications from home studio setups to world-class recording and editing suites. Best of all, multiple M-1000s can be cascaded for situations where additional inputs are required.

*At 96kHz, it is not possible to send audio in and out simultaneously via USB.



M-1000 Specifications

■ **Signal Processing** AD Conversion: 24bits, 64times oversampling, DA Conversion: 24bits, 128times oversampling, Internal Processing: 56bits, Sampling Frequency: 96kHz, 48kHz, 44.1kHz ■ **Analog Input** Input Level: -10dBu, +4dBu (switchable), Maximum Input Level: +22 dBu (Input Level: +4dBu) ■ **Digital Input** Number of Bits: 24bits, Sampling frequency: Digital Input 1: 96kHz to 32kHz (variable), Digital Input 2–4: 96kHz, 88.2kHz, 48kHz, 44.1kHz, 32kHz ■ **Analog Output** Output Level: +4dBu (XLR 3-31 : Master Out), -10dBu (1/4 inch phone : Monitor Out) ■ **Digital**

Output Number of Bits: 24bits ■ **Audio Specification** Signal-to-Noise Ratio: 102dB or less (IHF-A, typ.), Frequency Response: 96.0kHz: 20Hz–40kHz (+0.1 / -2.0dB), 48.0kHz: 20Hz–22kHz (+0.1 / -2.0dB), 44.1kHz: 20Hz–20kHz (+0.1 / -2.0dB) ■ **USB Audio** Sampling frequency: 96kHz, 48kHz, 44.1kHz, Number of Bits: 24bits ■ **Power Supply** AC117V, AC230V, or AC240V ■ **Power Consumption** 10W ■ **Dimensions** 482 (W) x 167 (D) x 44 (H) mm, 19 (W) x 6-5/8 (D) x 1-3/4 (H) inches, EIA-1U rack mount type ■ **Weight** 1.9kg, 4 lbs 4 oz

* 0 dBu = 0.775 Vrms.

* The specifications are subject to change without notice.

MC-909 Sampling Groovebox®

Roland®

Futuristic Music Demands a Futuristic Workstation.

The MC-909 Sampling Groovebox is Roland's ultimate tool for Professional music production. Combining an expandable synthesizer based on a custom wave ROM with a professional sampler and sequencer, this revolutionary studio offers power, flexibility and unrivaled ease-of-use. A USB port makes it possible to exchange samples and Standard MIDI Files with a PC, while onboard effects and mastering processors give producers the ability to create "finished" tracks.



COSM
V-LINK

*Actual product appearance may be subject to change.

- Flagship tabletop music workstation with 64-voice synth module, CD-quality sampler, 16-track sequencer, effects and USB
- 16MB sample memory (expandable up to 272MB)—plus Chop, Timestretch, Normalize and Wave Edit functions
- Hundreds of new waveforms, Patches and Rhythm Sets with SRX expansion
- Dedicated mastering effects, reverb and compressor, plus 2 MFX processors
- USB port for .WAV/.AIFF/.SMF file transfer; optional SmartMedia storage
- S/PDIF digital I/O for sampling and connection to digital gear
- Professional MIDI sequencing with velocity-sensitive pads and hundreds of new Preset patterns
- Intuitive interface with large LCD, Part Mixer and realtime controllers including Twin D Beams and Turntable Emulation for audio and MIDI
- New V-LINK function for integrating audio and video in performance

The Fusion of Audio and MIDI

As a music production tool, the MC-909 rivals that of even computer-based systems with its tight integration of audio and MIDI. Now samples can be sequenced and played back alongside MIDI tracks. The MC-909 will even synchronize audio phrases and sequences automatically! Samples can also be used in the MC-909's powerful 4-Tone synth engine, which includes a new dance-oriented wave ROM with 800 new Patches and 72 Rhythm Sets. New sounds can be added via an optional SRX Wave Expansion Board.

Professional MIDI Sequencing

The sequencing section of the MC-909 has been improved in many ways. First, the resolution is now 480 TPQN for rock-solid timing. Patterns can also be up to 998 measures for those who prefer linear programming, and the pads are now velocity-sensitive! And like all Grooveboxes, the MC-909 comes with hundreds of fresh new patterns to get you started—all programmed by professionals in the latest dance styles: hard-house, R&B, hip-hop, trance, drum 'n' bass and more.

COSM Multi-Effects, Mastering Effects and More

With the MC-909's studio-quality effects, producers have everything they need to sculpt their tracks, right down to mastering. To start, there's a 24-bit reverb processor with algorithms ranging from halls to plates. A dedicated compressor makes it easy to get tight, punchy drums, while two multi-

effects (MFX) processors deliver 38 and 47 algorithms respectively. These include powerful new filters, COSM® Amp Modeling and tempo-synced delays up to four seconds. To finish, simply insert the onboard mastering effects with 3-band compression for tracks that really punch.

Works with PCs, Too!

The MC-909 is the first Roland product to allow file transfer through the built-in USB port. Have some samples you want to load in the -909? Or maybe you'd like to dump your finished track into a PC for CD-burning. Using a USB cable, you can exchange .WAV and AIFF files between the MC-909 and a PC for simplified audio transfers. The USB port also allows Standard MIDI Files to be exchanged, so you can use your Groovebox sequences with software like Cubase, Logic and Performer (or vice-versa).

*All trademarks are property of their respective companies.

Lightning-Fast Operation

The MC-909's new graphic LCD screen—along with dedicated knobs, sliders and buttons—makes this Groovebox very easy to use. And live performers will appreciate the Turntable Emulation Slider and Twin D Beams. Turntable Emulation makes it possible to adjust pitch and time independently for MIDI data or audio, while the D Beams use an infrared beam of light for crowd-pleasing realtime control. And for the ultimate live performance, the MC-909's new V-LINK feature lets you sequence video clips in time with the music.* The future is now, and it's called the MC-909 Sampling Groovebox.

*Requires optional EDIROL DV-7PR Digital Video Workstation (sold separately) with software version 1.50 or later.



MC-909 Specifications

■ **Sound Generator Section** Maximum Polyphony: 64 voices, Sampling Frequency: 44.1 kHz, Parts: 16 (Main) + 16 (RPS), Waves: 693, Patches: Preset: 800, User: 256, Card: 256, Rhythm Set: Preset: 72, User: 128, Card: 128 ■ **Sampling Section** Data Format: 16-bit linear (File Type: WAV/AIFF), Maximum Polyphony: 64 voices, Sampling Frequency: 44.1 kHz (fixed), Maximum Sampling Time: • Internal memory (16 MB) only, mono: 180 sec. approx. (stereo: 90 sec. approx.), • with DIMM (256 MB), mono: 51 min. approx. (stereo: 25.5 min. approx.), Samples: User: 2,000, Card: 7,000 (128 MB SmartMedia) ■ **Sequencer Section** Parts: 16 + Tempo/Mute Control, Resolution: 480 ticks per quarter note, Tempo: 5-300, Maximum Note Storage:

approx. 1,300,000 notes, Patterns: Preset: 215, RPS: 440, User: 200, Card: 999, Songs: 50, Arrangement Style: Preset: 128, User: 128, Chord Memory: Preset: 64, User: 128, RPS Set: 50, Pattern Set: 50 ■ **Effects Section** Reverb: 1 (4 types), Compressor: 1 (1 type), Multi-effects (MEX): 2 (MEX1: 38 types), (MEX2: 47 types), Pitch Shifter (for external input): 1 (1 type) ■ **Mastering Section** 3-band Compressor: 1 (1 type) ■ **Expansion Slot** Wave Expansion Board SRX Series: 1 slot, DIMM: 1 slot, SmartMedia card: 1 slot, 8MB/16MB/32MB/64MB/128MB (3.3V) ■ **Power Supply** AC 117 V, AC 230 V, AC 240 V ■ **Power Consumption** 20 W ■ **Dimensions** 491 (W) x 386 (D) x 123 (H) mm, 19-3/8 (W) x 15-1/4 (D) x 4-7/8 (H) inches ■ **Weight** 6.0 kg, 13 lbs 4 oz

* The specifications are subject to change without notice.

SPD-S Sampling Pad

Roland®

March To a Different Drum Sound—Yours.

The SPD-S Sampling Pad is an affordable and easy way to add sampling to any percussion setup. A great alternative to acoustic triggers and rack sampler, the SPD-S lets you record CD-quality samples and play them back instantly using six pads and three edge triggers. Naturally, the SPD-S also includes preset sounds and effects so you can start playing immediately.



*Product pictured is a prototype model. Actual product appearance may be subject to change.

- Compact percussion multi-pad with CD-quality sampling
- Play any 8 sounds simultaneously via 6 pads and 3 edge triggers
- Up to 360 seconds of 44.1kHz user sampling (90 seconds in Fine mode)
- 200 User waveforms and 120 "ready-to-play" Preset waveforms
- Onboard pattern sequencer and resampling function
- 28 multi-effects and ambience add dimension to sounds
- Wave memory expandable via optional Compact Flash cards
- Mounts easily to conventional drum stands and hardware

The Easy Way to Sample

Until now, integrating custom drum sounds into a percussionist's setup meant configuring complicated drum triggers and a MIDI module. That's why Roland developed the SPD-S Sampling Pad—to give drummers and percussionists an easier and more affordable way to trigger sampled drum sounds and loops. With its generous sampling time, CD-quality sound, and time-tested rubber pads and edge triggers, there's never been a better way to play custom drum sounds and loops whether playing acoustic or electronic drums!

120 Preset Sounds At the Ready

While the SPD-S lets you sample up to 200 User waveforms, it's nice to know there are plenty of Preset sounds available at any given moment. In fact, the SPD-S contains over 120 Presets covering everything from acoustic and electronic drums to percussion and sound effects. Combine the onboard sounds with your own sampled sounds and loops to create the ultimate drum kit. A sampling CD is included to get you started.

Create Your Own Phrases and Effects

The SPD-S includes a powerful multi-effects processor with 28 algorithms and unique ambience effects, giving you the power to sculpt any Preset or User sound into something entirely new. Once you've created an effected sound, you can resample the waveform freeing the effects for something else. Drummers can even create original phrase loops using the onboard pattern sequencer and resampling function—just sequence a pattern and resample the output. Now the entire sequence can be triggered like a phrase loop from one of the pads! With tools like these, drummers can take their playing further than ever before.

Expandable and Flexible

Expansion is key with the SPD-S. Start with a Compact Flash slot for expanding sampling time and storing waveform data. An External Trigger input lets drummers add an optional drum pad in either a head or head/rim configuration. And with MIDI In and Out, the SPD-S can function as a trigger for external modules or be used in studio setups with a sequencer.



■ Compact Flash slot



SPD-S Specifications

■ Maximum Polyphony 8 ■ Pads 6+3 ■ Number of Patches User: 128 ■ Number of Waveforms Preset: 120 (tentative), User: 200, Card: 500 ■ Sampling Rate 44.1kHz ■ Sampling Mode 3types (Long/Standard/Fine) ■ Sampling Time (User) LONG: approx. 360 sec. STANDARD: approx. 180 sec. FINE: approx. 90 sec. ■ Display 16 letters, 1line (backlit LCD) ■ Effects 28 types+ambience (System) ■

Connectors INPUT (LINE/ MIC): L (mono)/ R, OUTPUT (LINE): L (mono)/ R, PHONES: 1, EXT TRIGGER IN: 1 (Head x2 or Head/Rim), FOOT SW: 1 (STEREO JACK), EXP PEDAL: 1, MIDI CONNECTORS: IN, OUT, Card Slot (Compact Flash): 1 ■ Power Supply AC adaptor (DC 9V, 1,000mA) ■ Dimensions 342 (W) x 282 (D) x 83 (H) mm ■ Weight approx. 2.1 kg ■ Accessory Sampling CD

* The specifications are subject to change without notice.

RT-7K/5S/3T Drum Trigger

Roland®

Expand the Capabilities of Your Acoustic Kit!

With Roland's RT-7K Kick Trigger, RT-5S Snare Trigger and RT-3T Tom Trigger, acoustic drummers can tap into the world of electronic drums without sacrificing the sound quality of their acoustic kit or dealing with the installation headaches of conventional triggers.



■ RT-7K



■ RT-5S



■ RT-3T

*Product pictured are prototype models. Actual product appearance may be subject to change.

■ High-quality acoustic drum triggers consisting of RT-7K Kick Trigger, RT-5S Snare Trigger and RT-3T Tom Trigger

■ Can be easily installed or removed without damage to acoustic drums

■ Superior sensor construction maintains natural acoustic sound

■ Rock-solid construction built to withstand aggressive playing

■ RT-5S and -7K use sensor technology from Roland's V-Pads™ to capture the most delicate nuances

■ RT-5S supports separate head/rim triggering and acoustic/mesh heads

■ Ideal for use with Roland TMC-6 Trigger MIDI Converter

■ Works directly with Roland V-Drum® modules and SPD-Series pads

Integrate Acoustic Drums with Roland Percussion Modules

By installing the RT-7K, RT-5S and RT-3T Drum Triggers, you can play drum modules like Roland's TD-Series and SPD-Series without any additional hardware—just plug into the dedicated Trigger inputs!

Trigger MIDI Modules with the TMC-6

When used in conjunction with Roland's TMC-6 Trigger MIDI Converter (sold separately), your trigger-modified acoustic kit can play any MIDI sound module—from samplers to workstations—or even interface with a sequencer.



RT-7K/5S/3T Specifications

[RT-7K Kick Trigger] ■ Trigger 1 (head) ■ Connector Trigger Out (1/4" phone)
■ Dimensions approx. 52 (W) x 110 (D) x 72 (H) mm ■ Weight approx. 175 g
[RT-5S Snare Trigger] ■ Trigger 2 (head, rim) ■ Control Rim Level ■ Connector
Trigger Out (Stereo 1/4" phone) ■ Dimensions approx. 52 (W) x 100 (D) x 53 (H) mm

■ Weight approx. 160 g [RT-3T Tom Trigger] ■ Trigger 1 (head) ■ Connector
Trigger Out (1/4" phone) ■ Dimensions approx. 52 (W) x 70 (D) x 48 (H) mm ■ Weight
approx. 100 g

* The specifications are subject to change without notice.

PCK-1 Practice Conversion Kit

Roland®

Turn Your 14-Inch Snare into a Practice Pad!

With the PCK-1 Practice Conversion Kit, you can turn your acoustic snare into a silent practice pad. This special package includes a patented 14-inch mesh head, an acoustic trigger with separate head/rim capabilities, and a rim silencer so you can practice naturally without disturbing others. Add an optional RM-2 Rhythm Coach with metronome and rhythm training exercises for even more effective practice.



*Product pictured is a prototype model. Actual product appearance may be subject to change. *RM-2 and Snare drum not included.

- Special kit turns standard 14-inch acoustic snare into a silent practice pad
- New 14-inch mesh head provides better feel than conventional rubber pads
- Rubber rim silencer suppresses rim shot noise
- Includes RT-5S Snare Trigger for triggering separate head/rim sounds
- Can trigger MIDI modules when used with optional TMC-6 Trigger MIDI Converter or TD-Series module
- Expandable via optional RM-2 Rhythm Coach (mounting bracket included)

Get the Feel Without the Noise

If you want a practice pad with natural feel and silent response, the PCK-1 Practice Conversion Kit is for you. Just swap out your snare head with the 14-inch mesh head, and you'll get a response that's so realistic you'll hardly notice the difference! Best of all, the mesh-head design—coupled with the included rubber rim silencer—makes your snare quiet enough to practice at any hour.

Works Great with the RM-2 Rhythm Coach

The PCK-1 includes Roland's RT-5S Snare Trigger with separate head and rim triggering. This lets you connect your newly converted 14-inch snare to products like the RM-2 Rhythm Coach, an integrated metronome and sound module with onboard rhythm training exercises.

Makes
Practice
Fun!



The RM-2 Rhythm Coach takes the monotony out of practice with 28 realistic drum sounds. An integrated metronome helps drummers stay on beat, while 11 built-in exercises improve timing, speed and endurance.

RM-2 Rhythm Coach

VG-88 V.2 V-Guitar System

Roland®

It's Like Getting a Whole New VG-88.

The new VG-88 Version 2.0 software takes this revolutionary guitar and amp modeling system to all-new heights. For starters, there are three new COSM® guitar models including Sitar, Wave Synth and an even more realistic nylon guitar. There is no shortage of amp models either—18 new amps total! Version 2.0 also adds entirely new features to the VG-88's repertoire, such as Defretter and Uni-V effects, plus five types of COSM wah models and more. The future of guitar has never looked better.



*Actual product appearance may be subject to change.

- Software update for Roland VG-88 V-Guitar™ System
- 3 new COSM guitar models: Wave Synth, Sitar and Nylon II
- 18 new COSM amp models including combos and stacks from vintage to modern
- Defretter effect creates instant fretless guitar sounds
- Uni-V effect produces vintage swirling rotary sounds
- New COSM wah modeling re-creates 5 classic wah pedals
- Auto GK Detection allows instant connection of standard electrics
- External control now possible via System Exclusive messages

Amazing New Guitar and Amp Models

Plug in your GK-equipped guitar and you'll get three new guitar models including the analog-style Wave Synth, Sitar, and the incredible Nylon II model. Eighteen new amps have also been added, bringing the total up to 32 amp models. These include Jazz Combo, Match Lead, Tweed, and new R-Fier models like R-Fier Orange and Red.

■ COSM GUITAR

VARI GT	POLY COMP	PWM
ACOUSTIC	POLY OCT	CRYSTAL
NYLON STRINGS	POLY SG	ORGAN
NYLON II	BOWED	BRASS
OPEN TUNE	DUAL	SITAR
12STRINGS	FILTER BASS	WAVE SYNTH
PD SHIFT	PIPE	
POLY DIST	SOLO	

■ COSM AMP

JC-120	VO DRIVE	R-FIER ORANGE
JAZZ COMBO	VO LEAD	R-FIER VINT
CLEAN TWIN	BLUES	SOLDN LEAD
PRO CRUNCH	BG RHYTHM	DRIVE STACK
TWEED	BG DRIVE	LEAD STACK
CRUNCH	BG LEAD	METAL S150
STACK CRUNCH	MS1959(I)	METAL DRIVE
MATCH DRIVE	MS1959(II)	METAL STACK
MATCH LEAD	MS1959(III)	METAL LEAD
FAT MATCH	MS HI-GAIN	AC.GUITAR
VO CLEAN	R-FIER RED	

■ MOD EFFECT

HARMONIST	SUB EQ	PEDAL SHIFT
PSHIFTER	2x2CHORUS	VIBRATO
FLANGER	TREMOLO	DEFRETTOR
PHASER	PAN	UNI-V

■ WAH EFFECT

ORIGINAL	VO WAH	LIGHT WAH
CRY WAH	FAT WAH	7STR WAH

* Red and bold entries indicate refined (NYLON II only) or newly added models/effects.

Bass players welcome.

The Roland V-Bass is a floor-based processor capable of accurately modeling the world's most popular bass guitars, bass amplifiers and polyphonic effects. Use it with the new GK-2B Divided Pickup for Bass to take your playing into bold new sonic dimensions.



OPTIONS



GK-2A
Divided Pickup
(for VG-88)

GK-2B
Divided Pickup
(for V-Bass)

VG-88 Specifications

■ **AD Conversion**, A/D 24 bit AF Method (NORMAL INPUT), 20 bit (GK INPUT) ■ **D/A Conversion** 20 bit 128 times Oversampling ΔΣ Modulation ■ **Sampling Frequency** 44.1 kHz ■ **Program Memories** 260 (Preset: 160 + User: 100) ■ **Nominal Input Level** INPUT: -10 dBu ■ **Input Impedance** INPUT: 1 MΩ ■ **Nominal Output Level** OUTPUT: +4 dBu, GUITAR OUT: -10 dBu ■ **Output Impedance** OUTPUT: 2 kΩ, GUITAR OUT: 2 kΩ ■ **Dynamic Range** 100 dB or greater (IHF-A) ■ **Display** 160 x 64 dots backlit LCD, 8-segment 2-character LED ■ **Control** Output Level knob, Value dial, Cursor buttons, Output Select button, Function buttons 1-6, Page > button, Page < button, Exit button, Write button, COSM Guitar button, COSM Amp button, Effects button, Level/BPM/Key button, Pedal/Assign button, Name/Chain button, EZ Edit button, Tuner button, Number pedals 1-4, CTL pedal, Bank Up pedal, Bank Down pedal, Expression pedal, Pedal Number LEDs 1-4, Control Pedal LED, Output Select LEDs x 3, Power switch ■ **Connectors** GK IN, GUITAR INPUT, GUITAR OUTPUT, OUTPUT L (MONO), OUTPUT R, PHONES, SUB EXP PEDAL/SUB CTL1, 2, MIDI IN, MIDI OUT ■ **Power Supply** AC 117 V, 230 V, 240 V ■ **Power Consumption** 24 W ■ **Dimensions** 504 (W) x 303 (D) x 101 (H) mm, 19-7/8 (W) x 11/15/16 (D) x 4 (H) inches ■ **Weight** 4.9 kg / 10 lbs 13 oz ■ **Accessories** Power Cord, Owner's Manual, Quick Start, GK Connecting Cable: C-13A (5 m) ■ **Options** Divided Pickup: GK-2A, Unit Selector: US-20, GK Parallel Box: GKP-4, GK Cables: GKC-3/5/10, Expression Pedal: EV-5, FV-300L, Foot Switch: FS-5U, FS-5L.

* 0 dBu = 0.775 Vrms.
* The specifications are subject to change without notice.

GI-20 GK-MIDI Interface

Roland®

The Best Guitar-MIDI Interface on the Planet

If you're looking to enter the world of synthesis, sample-triggering or MIDI sequencing using your guitar or bass, then this is your box. The GI-20 GK-MIDI Interface detects the signal from any electric guitar or bass equipped with a GK-2A or GK-2B pickup, respectively, and lets you trigger synthesizers and samplers, or even record your playing as MIDI data. And with its built-in USB MIDI port, the GI-20 is perfect for computer-based recording setups.



GK

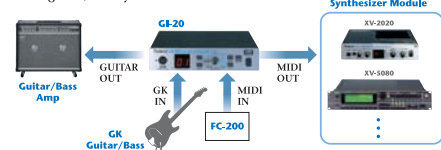
*Product pictured is a prototype model. Actual product appearance may be subject to change.

- Powerful Guitar/Bass-MIDI interface ideal for turning your favorite synthesizer or MIDI module into a guitar synth
- Built-in USB MIDI port for computer connection
- Easy, knob-based controls and dedicated buttons for fast, intuitive operation
- Patch Memory lets you store user settings including "Play Feel," "Transpose/Mute" settings for each string, and Bank Select/Program Change messages for live performance
- Perfect size and configuration for use with Roland XV-2020 Synthesizer Module
- Flexible Transpose functions + 2 / - 3 octave with optional footswitch control

Guitar and Bass Synthesis Made Easy

Using a guitar or bass equipped with an optional GK-2A or GK-2B Divided Pickup, the GI-20 can be used to trigger virtually any MIDI-compatible synthesizer or sampler, as well as outputting your "natural" guitar sound for amplification.

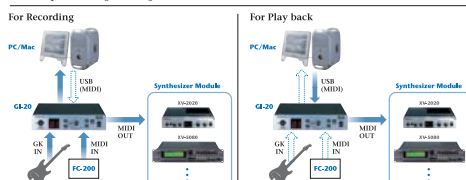
■ For guitar/bass synthesizer



Perfect for Computer Recording Setups

Thanks to its convenient USB MIDI port, the GI-20 lets you quickly connect your GK-equipped guitar or bass to a variety of computer-based recording systems.

■ For Sequencer Programming



GI-20 Specifications

■ Patches 50 ■ Display 2 characters, 7 segment LED ■ Power Supply AC adaptor (ACI or ACB series); DC 9 V ■ Dimensions 218 (W) x 237 (D) x 44 (H) mm, 8-5/8 (W) x 9-3/8 (D) x 1-3/4 (H) inches, (Incl. foot rubber): 218 (W) x 237 (D) x 46.4 (H) mm, 8-5/8 (W) x 9-3/8 (D) x 1-7/8 (H) inches ■ Weight 1.3 kg/2 lbs 14 oz (excl. AC adaptor) ■ Accessories AC Adaptor, GK Cable (3 m), MIDI Cable, Owner's Manual, CD-ROM (USB driver), Foot Rubber x 4 ■ Options Divided Pickup: GK-2A (for guitar), GK-2B (for bass), GKC-3/5/10 (GK Cables), FS-5U, PCS-31, EV-5, RAD-50, FC-200, GFC-50, US-20, GKP-4

* The specifications are subject to change without notice.



AC-60 Acoustic Chorus

Roland®

A Compact Stereo Acoustic Amp with Pure, Natural Tone

Although there are many acoustic amps on the market today, few of them can compete with the rich, natural tone of the compact AC-60 Acoustic Chorus amplifier. This innovative stereo amp uses sophisticated digital signal processing to deliver a crisp sound with lush stereo/multi-band chorus—including a new "wide" mode—plus delay/reverb and impressive Auto Anti-Feedback control. And with its 2-channel Mic/Line design and stand-mountable configuration, the AC-60 is clearly heads above the competition.



*Product pictured is a prototype model. Actual product appearance may be subject to change.

- Compact stereo acoustic amplifier with pure, natural tone and excellent projection
- 2-Channel design: Guitar input and Mic/Line input with Phantom Power
- Stereo 30-watt/dual 6.5-inch speaker configuration loud enough for club gigs and small PA applications
- Onboard DSP delivers lush stereo/multi-band chorus, newly developed "wide" chorus and delay/reverb with footswitch control
- Built-in Auto Anti-Feedback controls allow for maximum volume without feedback
- Convenient Mute switch for silent tuning on stage
- Stereo Line Out for PA and recording applications; Subwoofer output
- Built-in tilt stand offers better acoustic projection; can also be mounted on commercially available speaker stands

Big Sound in a Compact Package

Talk about impressive. The AC-60 is a marvel of amplifier design, using the latest DSP technology to deliver a pure, rich acoustic sound with projection far beyond its compact size. This stereo acoustic amp (30w x 2) offers brilliant stereo/multi-band chorus including a new "wide" mode, plus shimmering reverb tailored specifically for acoustic guitar. And if it's more low-end you crave, the AC-60 even gives you a Subwoofer output.

A Marvel of Convenience

The dual-channel AC-60 offers both a Guitar channel and a Mic/Line channel with Phantom Power. This makes it the perfect companion for coffeehouses and small club gigs. The Guitar channel gives you a choice between piezo and magnetic pickup inputs, plus powerful Anti-Feedback controls. Rounding out this package is a Mute switch for silent tuning and a Stereo Line Out for connection to mixing consoles and PA systems.

AC-60 Specifications

■ Rated Power Output 30W + 30W ■ Nominal Input Level (1 kHz) GUITAR Channel: -10 dBu, MIC/LINE Channel: -50 / -10 dBu, AUX IN: -10 dBu ■ Nominal Output Level (1 kHz) DI/TUNER OUT: +4 dBu, LINE OUT: +4 dBu, SUB WOOFER OUT: +4 dBu ■ Speakers 16.5 cm (6.5 inches) x 2 ■ Power Supply AC 117/230/240 V

■ Power Consumption 68 W ■ Dimensions 380 (W) x 270 (D) x 268 (H) mm, 15 (W) x 10-11/16 (D) x 10-9/16 (H) inches ■ Weight 9.8 kg, 21 lbs 10 oz ■ Accessories Owner's Manual ■ Options Foot Switch: FS-SU/-SL (BOSS), Connection Cable: PCS-31

* 0 dBu = 0.775 Vrms.
* The specifications are subject to change without notice.

Presenting the Complete 2003 BOSS Lineup...



Compact Pedals

BOSS multi-effects give guitar and bass players access to a range of killer effects and tones in a rugged, floor-based design—all with the simplicity of a compact pedal.



[GT-6] Guitar Effects Processor
The ultimate guitar effects processor.



[GT-6B] Bass Effects Processor
Awesome multi-effects for bass!



[VF-1] 24-bit Multiple Effects Processor
Great for guitar, bass or keyboards.



[ME-50] Guitar Multiple Effects

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Multi Effects

The Twin Pedal Series represents the culmination of years of BOSS pedal design. These are the absolute finest BOSS effect pedals for guitarists who demand the best.



[OD-20] Drive Zone
Vintage and modern overdrive sounds!



[EQ-20] Advanced EQ
Programmable EQ for guitar and bass.



[WP-20G] Wave Processor
Turn your GK-ready guitar into a funky synth.



[DD-20] Giga Delay

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[CE-20] Chorus Ensemble
Taking chorus to the next level.



[RC-20] Loop Station™
Easy sound-on-sound looping!



[OC-20G] Poly Octave
Amazing polyphonic octave effects!

Digital Studios

Samplers

BOSS drum machines are known for their great sound and easy programming. Whether for jamming or for creating realistic drum tracks in the studio, DR-Series drum machines are a great choice.



[DR-770] Dr. Rhythm
BOSS' flagship drum machine.



[DR-670] Dr. Rhythm
Affordable drum and bass for guitarists.



[DR-3] Dr. Rhythm

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[TU-2] Chromatic Tuner
Legendary BOSS tuning in a stompbox.



[TU-70] Guitar & Bass Auto Tuner
Backlit LCD makes tuning easy.



[TU-15] Chromatic Tuner

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Dr. Rhythm Series

TU-Series

BOSS tuners offer musicians the most accurate and easy tuning available. Whether for guitar or instrument tuning, there's a TU-Series model to fit your needs.



[TU-12] Chromatic Tuner
The industry-standard tuner.



[TU-12H] Chromatic Tuner
Extended tuning range for woodwinds, brass and more.



[TU-8] Guitar & Bass Auto Tuner
Tune any guitar or bass!



[TU-6] Guitar Tuner
Affordable tuning for guitarists.

Accessories



[AB-2] 2-Way Selector

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[DB-88] Dr. Beat



[DB-66] Dr. Beat



[DB-12] Dr. Beat



[DI-1] Direct Box



[FV-300L] Foot Volume/Expression



[FV-50H] Volume Pedal



[FV-50L] Volume Pedal



[FS-5U] Footswitch



[FS-5L] Footswitch

ME-50 Guitar Multiple Effects



No Nonsense. Just Killer Tone.

The ME-50 Guitar Multiple Effects is a floor-based multi-effects processor built with the ruggedness and simplicity of a stompbox. Designed to work with your amplifier, the ME-50 focuses on killer multi-effects (like COSM® overdrive and distortion) rather than amp modeling. And dialing in your tone is easy, thanks to dedicated knobs for each effect section, three footswitches and a built-in expression pedal. So if you want great-sounding effects without all the menu surfing, the ME-50 is everything you need.

COSM



*Product pictured is a prototype model. Actual product appearance may be subject to change.

- Floor-based multi-effects processor with BOSS' most intuitive interface ever
- 30 Preset Patches including delay, modulation, reverb, compressor and more
- Killer COSM overdrive/distortion effects including "Square" synth sound
- Dedicated knobs for each effect section—no menus to navigate!
- Tone Modify function offers Preset EQ settings for quick tone editing
- 3 footswitches for switching effects on and off with a single stomp
- Onboard expression pedal pre-routed to 6 modulation options or volume
- Rugged metal case with clear panel layout

Works Just Like Your Favorite Pedals

A multi-effects processor without a menu-driven LCD? Leave it to BOSS to design the most intuitive multi-effects processor ever. With simple knob-based control over each effect section, the ME-50 makes dialing in your tone easier than ever. And when you want to kick in an effect, just step on one of the footswitches. Think of it as a pedalboard full of stompboxes, just without all the individual pedals.

Superb Overdrive/Distortion Effects

The ME-50 boasts a range of superb COSM overdrive and distortion modes—perfect for use on stage with an amp. Derived from the popular OD-20 Drive Zone, these are some of the crunchiest, tastiest overdriven sounds you can imagine. There's even a "Square" effect for cool synth-type sounds. Of course, the ME-50 also has plenty of other effects like compression, analog delay, flanger, phaser, tremolo, Harmonist, Uni-V and a wicked new Rotary effect.

■ Effect List

Tone Modify	Harmonist	Delay	Voice
Compressor	Tremolo	Reverb	Ring Modulator
Overdrive/Distortion	Pan	Noise Suppressor	Bend (+1 OCTAVE, -1 OCTAVE)
Chorus	Vibrato	Foot Volume	
Phaser	Uni-V	Wah	
Flanger	Rotary	Resonance	

Easy Assignable Expression Pedal

Having an assignable expression pedal is great, but not if you have to dig through menus just to select the effect you want to control. The ME-50 fixes all that with a simple Pedal Mode switch and knob. First, select whether you want to use the pedal for volume or expression. If you choose expression, you can then select one of six preset assignments via the dedicated knob: wah, resonance, voice, ring mod and octave up or down.

Memory Function for Live Performance

The ME-50's Memory function makes changing Patches quick and easy. Once enabled, the three footswitches become Patch selectors for switching between three programs within one of the ME-50's ten memory banks. To switch banks, just press the Bank Up/Down buttons or use an optional footswitch. And with the ME-50's convenient tuner function, keeping your guitar in tune is easy.



ME-50 Specifications

■ AD Conversion 24 bit + AF method* ■ DA Conversion 24 bit ■ Sampling Frequency 44.1 kHz ■ Patches 30 (user) ■ Nominal Input Level INPUT: -10 dBu, AUX IN: -10 dBu ■ Input Impedance INPUT: 1 MΩ, AUX IN: 100 kΩ ■ Nominal Output Level -10 dBu ■ Output Impedance 2 kΩ ■ Display 7 segments, 1 character LED ■ Jacks INPUT jack, GUITAR AMP jacks L(MONO)/R, AUX IN jack (Stereo Mini type), PHONES/LINE OUT jack, AC Adaptor jack ■ Power Supply DC 9 V: Dry batteries (R6/LR6 (AA) type) x 6, AC Adaptor (PSA series: Optional) ■ Current Draw 120 mA, * Expected battery life under continuous use: Carbon: 3.5 hours, Alkaline: 12 hours,

These figures will vary depending on the actual conditions of use. ■ Dimensions 384 (W) x 225 (D) x 102 (H) mm, 15-1/8 (W) x 8-7/8 (D) x 4-1/16 (H) inches ■ Weight 3.15 kg / 7 lbs (including batteries) ■ Accessories Owner's Manual, Dry Batteries (Alkaline: LR6 (AA) type) x 6, Roland Service (Information Sheet) ■ Options AC Adaptor: BOSS PSA series, Foot Switch: BOSS FS-5U

* 0 dBu = 0.775 Vrms.

* The specifications are subject to change without notice.
* AF method (Adaptive Focus method), This is a proprietary method from Roland that vastly improves the signal-to-noise (S/N) ratio of the A/D and D/A converters.

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DD-20 Giga Delay



BOSS®

The World's Most Powerful Delay Pedal.

The BOSS DD-20 Giga Delay offers more User memory and the longest delay of any effect pedal—up to 23 seconds! Delay time can be quickly set using the push-button knob or via tap tempo. And with a choice of 11 modes—including new “Smooth” and “Twist” delays and sound-on-sound recording—this Twin Pedal raises the bar for delay effects.



*Product pictured is a prototype model.
Actual product appearance may be subject to change.

- BOSS' most powerful delay pedal with up to 23 seconds of delay
- 11 delay modes including classic tape delay and sound-on-sound recording
- New “Smooth” and “Twist” modes for subtle or radical delay effects
- Memory function for changing delay modes seamlessly
- New push-button knob for setting delay time in fine or coarse adjustments

23 Seconds of Pro-Quality Delay

With up to 23 seconds of delay, the DD-20 easily outshines the competition and can even double as a sound-on-sound pedal. Delay time can be adjusted via tap tempo or using a knob, which also features a push function to set the delay range more quickly. Eleven delay modes are provided covering everything from analog and tape delay to reverse delay and more. A new Memory function makes it possible to change delay modes seamlessly.



DD-20 Specifications

■Nominal Input Level -20 dBu (GUITAR/BASS), +4 dBu (AMPLIFIER SEND/RETURN)
■Input Impedance 1 M Ω ■Nominal Output Level -20 dBu (GUITAR/BASS), +4 dBu (AMPLIFIER SEND/RETURN) ■Output Impedance 1 k Ω (OUTPUT A (MONO), B), 33 Ω (PHONES) ■Recommended Load Impedance 10 k Ω ■Display Custom LCD (backlit LCD) ■Power supply DC 9 V: Dry battery (R6/LR6 (AA) type) x 6, AC Adaptor ■Power Consumption 200 mA (9V: MAX.) ■Dimensions 173 (W) x 158

(D) x 57 (H) mm / 6-13/16 (W) x 6-1/4 (D) x 2-1/4 (H) inches ■Weight 1.1 kg / 2lbs 7 oz (including batteries) ■Accessories Owner's Manual, Leaflet (“USING THE UNIT SAFELY,” “IMPORTANT NOTES,” and “Information”), Dry Battery (LR6 (AA) type) x 6
*We recommend that alkaline battery be used when replacing the batteries. ■Option AC Adaptor (PSA-series)

* 0 dBu = 0.775 Vrms.

* The specifications are subject to change without notice.

New “Smooth” and “Twist” Modes

The DD-20 also introduces two all-new delay effects that are sure to blow some minds. Twist creates wild delay effects similar to “over the top” manipulation of an analog tape echo, while Smooth creates ultra-smooth delay effects. This is a pedal no guitarist should be without!

AB-2 2-Way Selector

BOSS®

Switch Guitars or Amps with a Stomp!

The BOSS AB-2 is a 2-way selector that makes changing inputs or outputs easy. One stomp is all it takes to instantly switch between two guitars or effects setups, change amplifiers or switch between an amp and tuner. Rock-solid BOSS construction ensures the AB-2 will stand the test of time.



* Actual product appearance may be subject to change.

AB-2 Specifications

■Nominal Input Level -20 dBu ■Nominal Output Level -20 dBu ■Control Pedal ■Indicators A (red), B (yellow) ■Connectors A jack, B jack, IN/OUT jack ■Current Draw 5 mA or less * Expected battery life under continuous use: Carbon: 100 hours, This figure will vary depending on the actual conditions of use. ■Power Supply Dry Battery (R03/LR03 (AAA) type) x 2 ■Dimensions 96 (W) x 90 (D) x 43 (H) mm, 3-13-16 (W) x 3-9/16 (D) x 1-3/4 (H) inches ■Weight 240 g / 9 oz ■Accessories Owner's Manual, Dry Battery (R03/LR03, (AAA) type) x 2, Number Sticker, Leaflet (“USING THE UNIT SAFELY,” “IMPORTANT NOTES,” and “Information”)

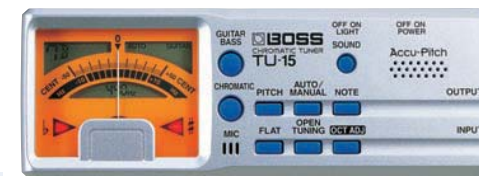
* 0 dBu = 0.775 Vrms.
* The specifications are subject to change without notice.

TU-15 Chromatic Tuner

BOSS®

The World's First Tuner with Accu-Pitch.

The BOSS TU-15 Chromatic Tuner gives guitarists the most accurate tuning possible—bolstered by new Accu-Pitch and Octave Adjust functions—plus popular Drop D, open and flat tunings. A backlit needle and LCD make tuning easy, while improved high-impedance inputs let you connect between an amp and guitar without signal loss.



* Actual product appearance may be subject to change.

TU-15 Specifications

■Reference Pitch A4=430 Hz-449 Hz (1 Hz step) ■Tuning Range E0 (20.6 Hz)-C8 (4186.0 Hz) ■Tuning Accuracy +/- 1 cent ■Input Impedance 10 M Ω ■Indicator Meter, LCD Display ■Speaker 36 mm x 1 dynamic type ■Connectors Input Jack, Output Jack, AC Adaptor Jack ■Power Supply Dry Battery (R6/LR6 (AA) Type) x 2; DC 3 V, AC Adaptor DC 9 V (PSA series; optional) ■Power Consumption 15 mA (backlit OFF and SOUND mode OFF), 55 mA (backlit ON and SOUND mode ON) * Expected battery life under continuous use (Carbon) (continuous input): Approx. 15 hours (backlit ON and SOUND mode ON), Approx. 45 hours (backlit OFF, SOUND mode OFF). These figures will vary depending on the actual conditions of use. ■Dimensions 149 (W) x 58 (D) x 40 (H) mm / 5-7/8 (W) x 2-5/16 (D) x 1-5/8 (H) inches ■Weight 190 g (including batteries) / 7 oz ■Accessories Dry Battery (R6 (AA) Type) x 2, Owner's Manual, Leaflet (“USING THE UNIT SAFELY” and “IMPORTANT NOTES”), Information (separate sheet) ■Option AC Adaptor (PSA series)

* 0 dBu = 0.775 Vrms.

These figures will vary depending on the actual conditions of use.

- Accu-Pitch verifies intonation by sounding a note when correct tuning is reached
- Versatile modes: Drop D, Open D/E/G/A, DADGAD and flat tunings up to 5 semitones
- World's first Octave Adjust function simplifies tuning using open string and 12th fret
- High impedance input keeps tuner transparent when connected between guitar and amp
- Backlit needle and LCD let guitarists tune up anywhere